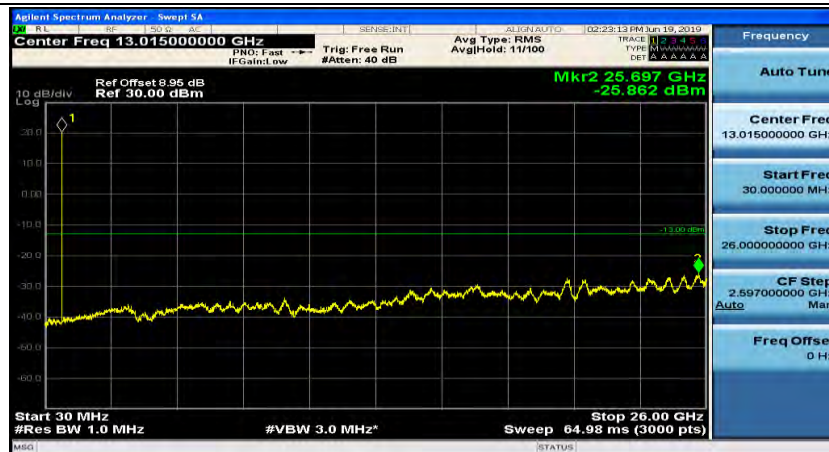
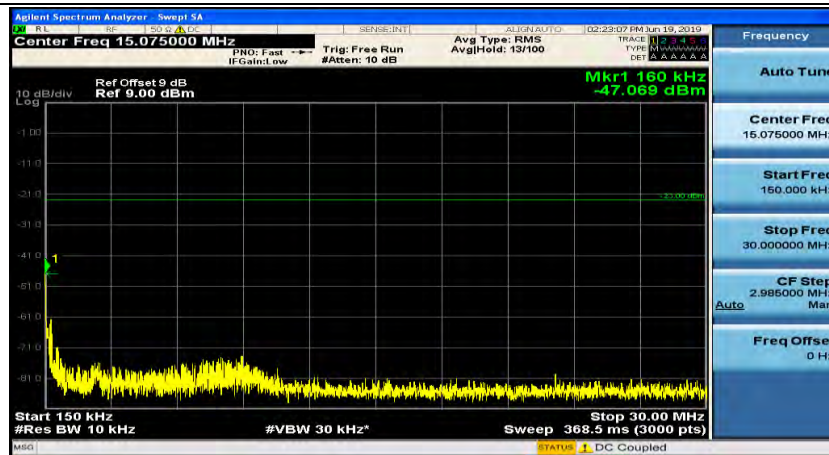
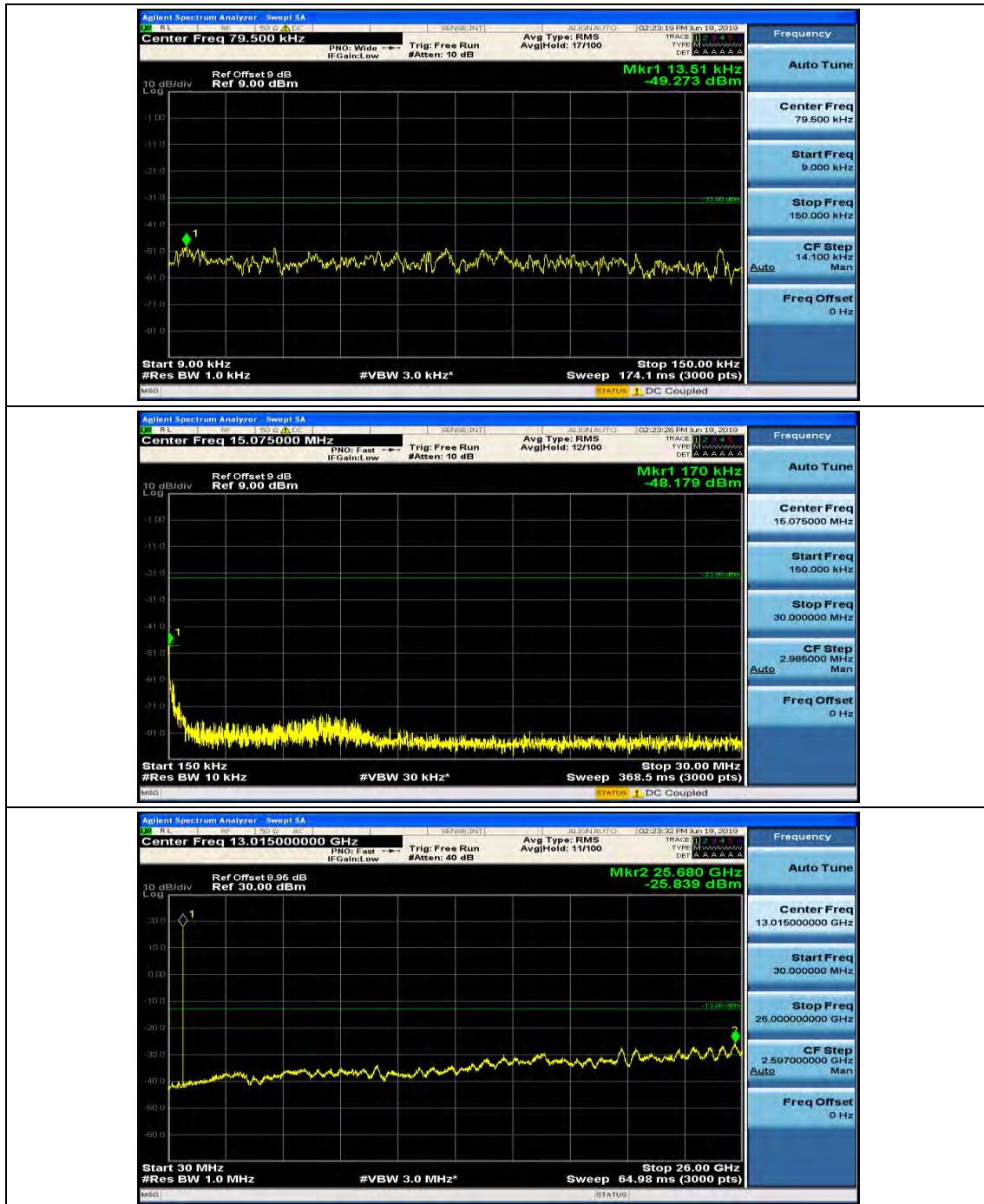


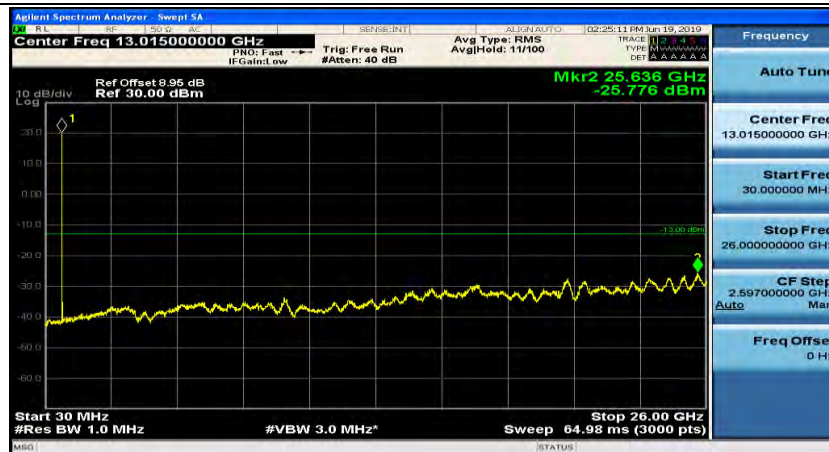
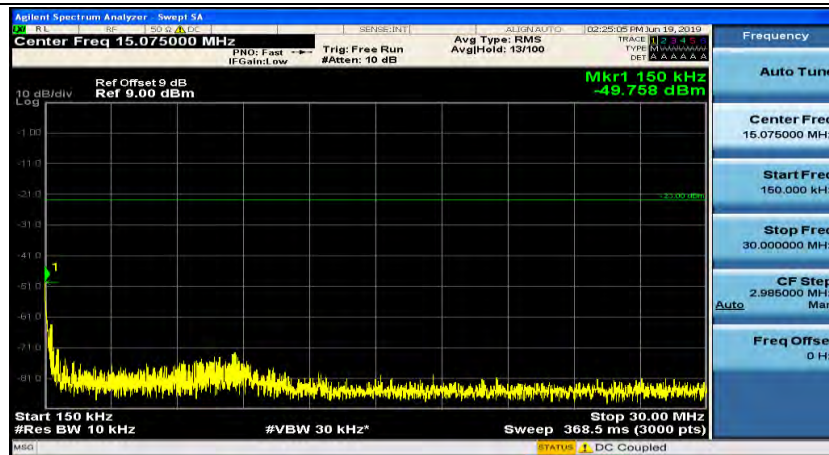
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#0



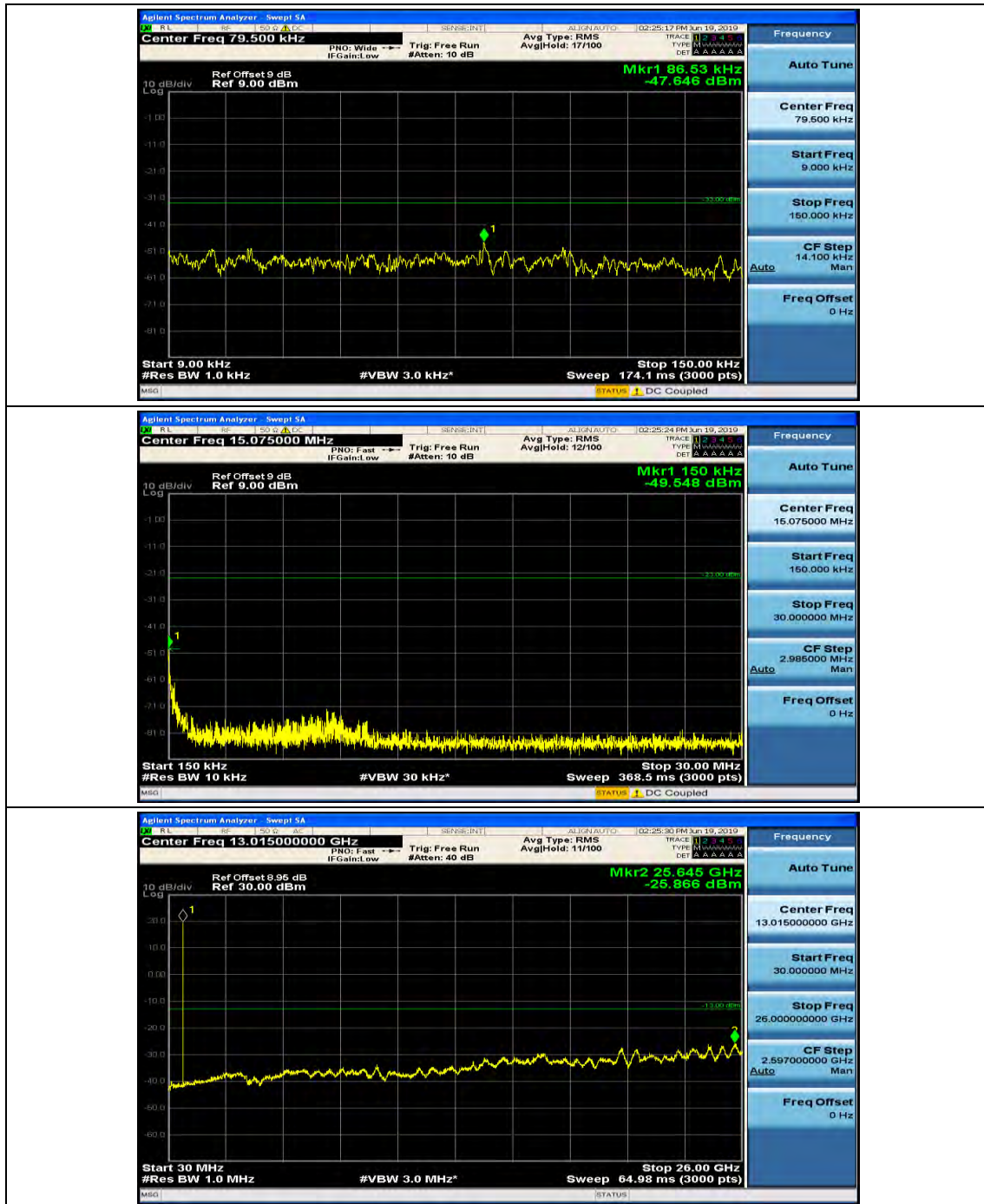
(Channel Bandwidth: 3 MHz)_LCH_16QAM_1RB#7



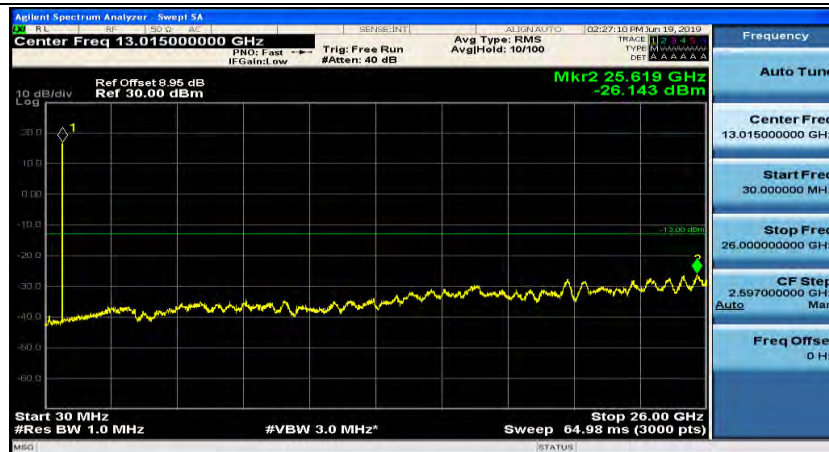
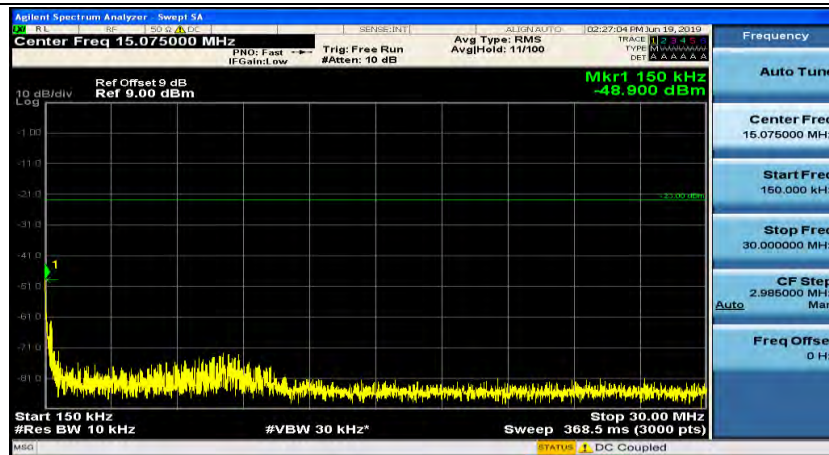
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#0



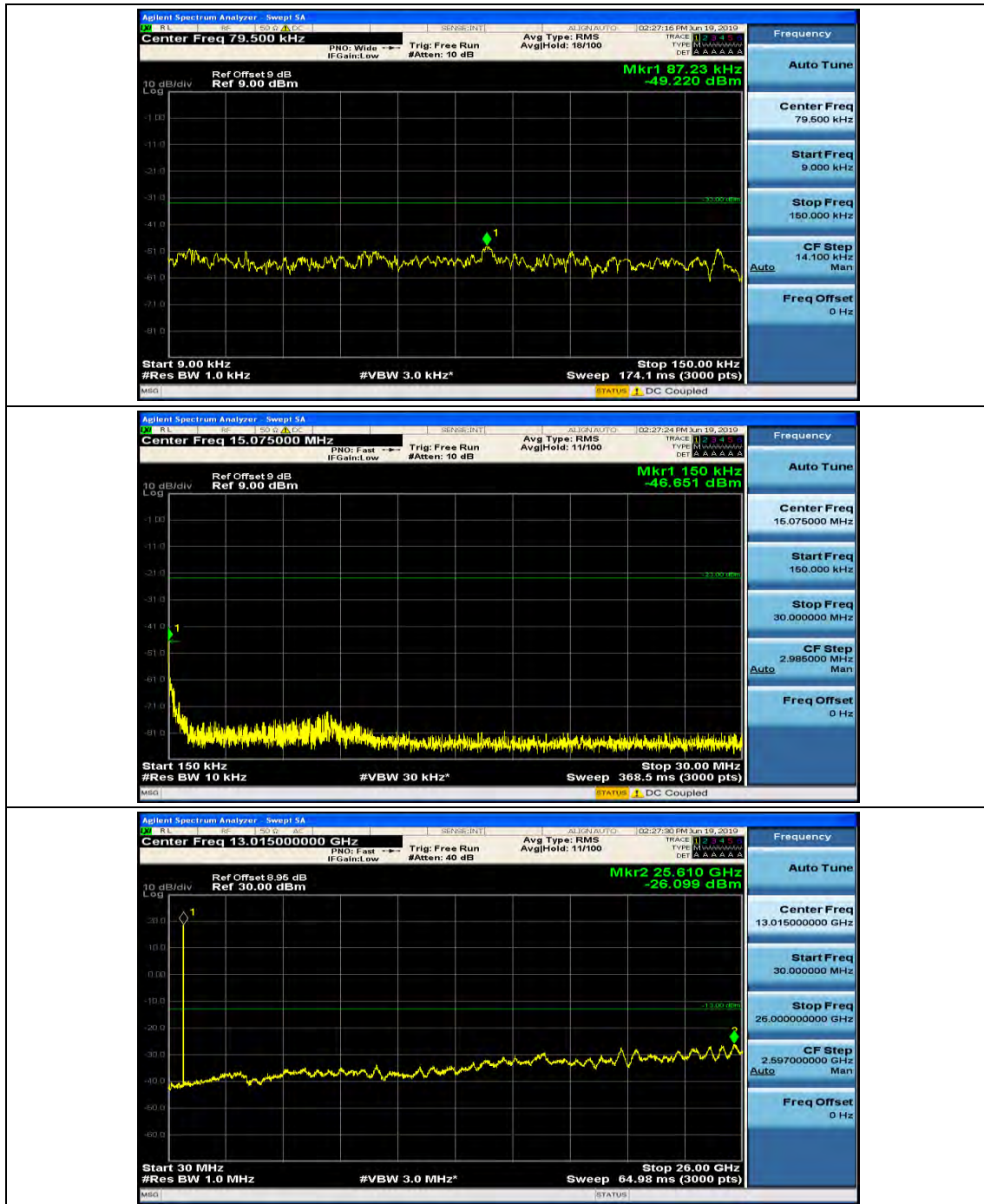
(Channel Bandwidth: 3 MHz)_MCH_16QAM_1RB#7



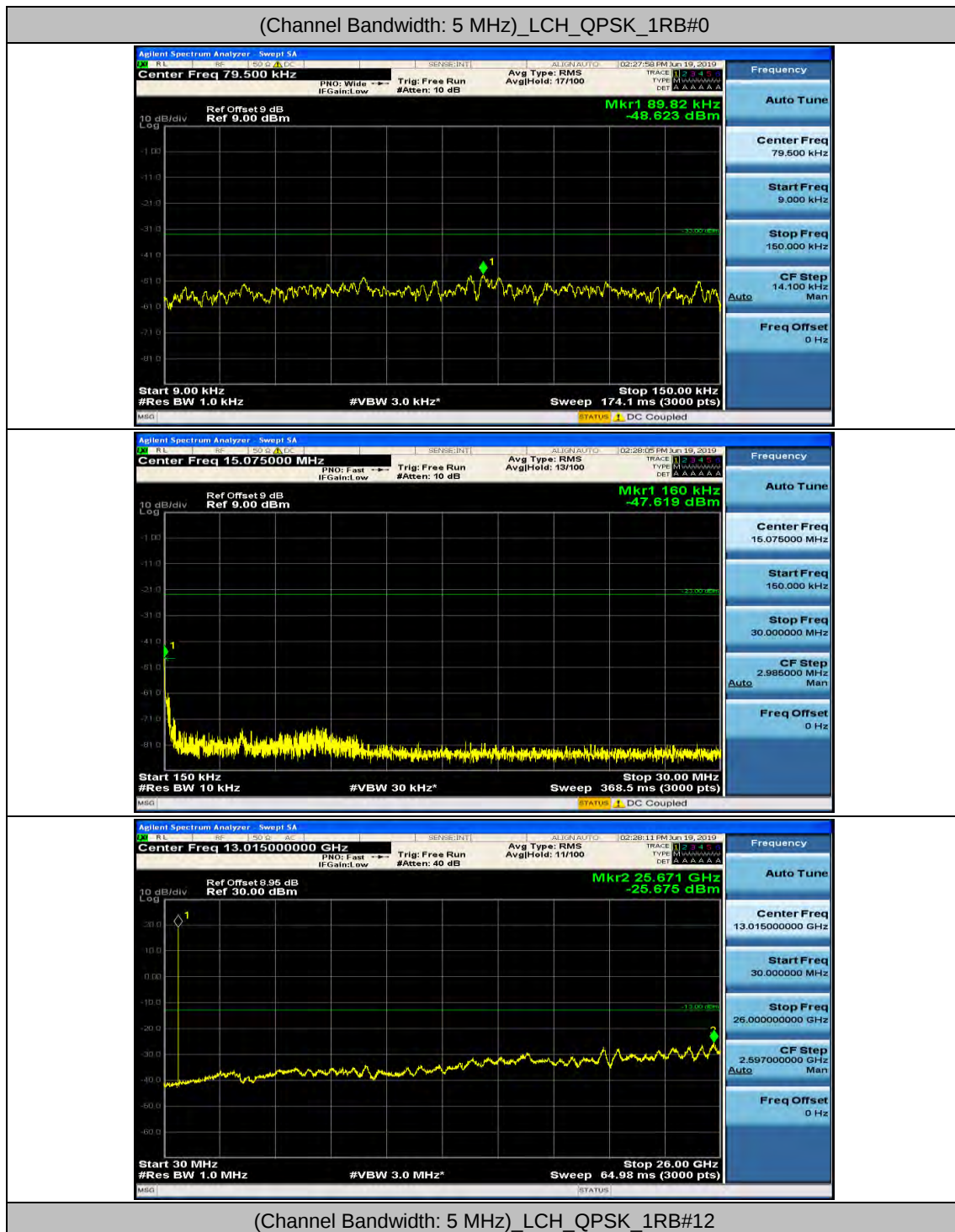
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#0

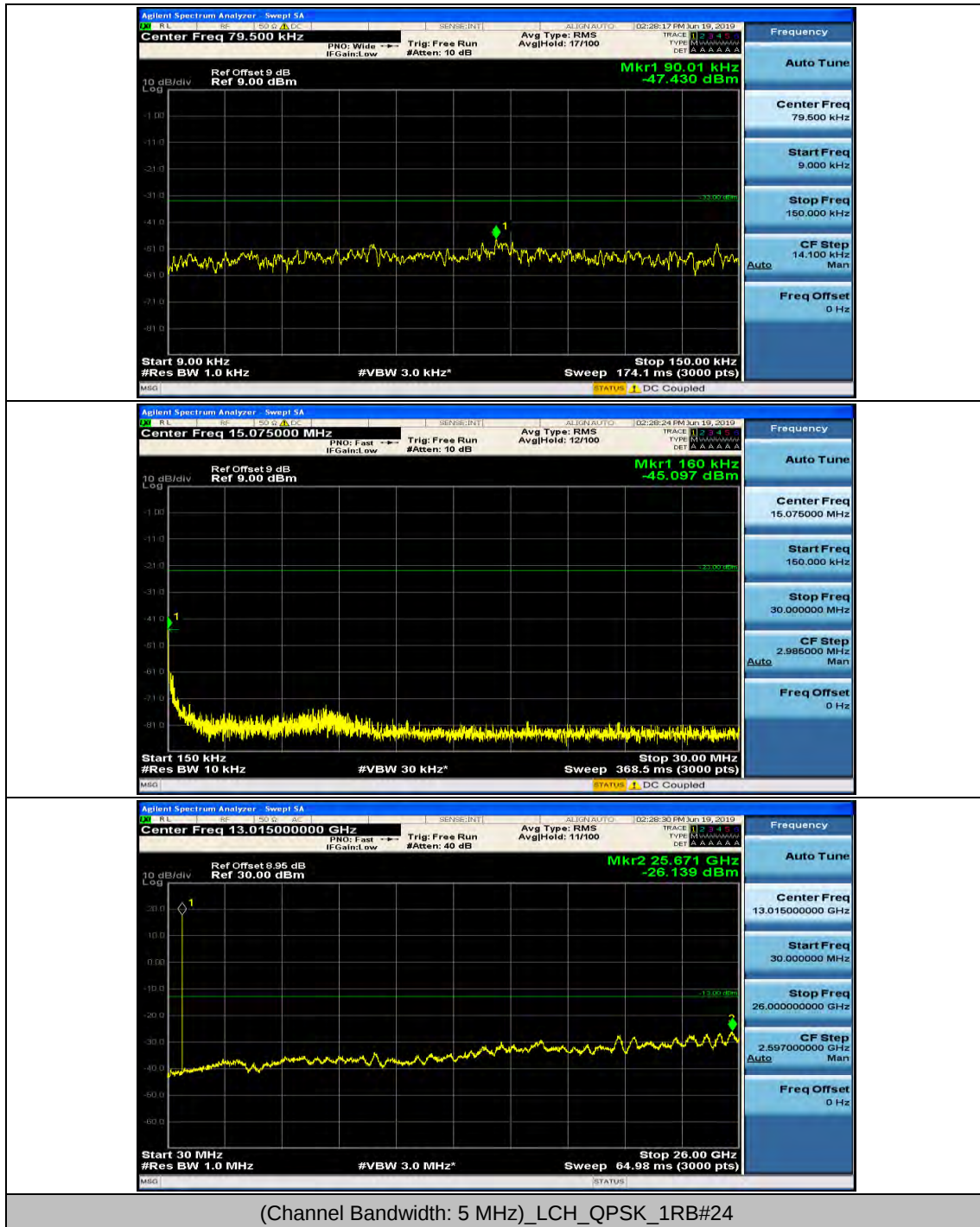


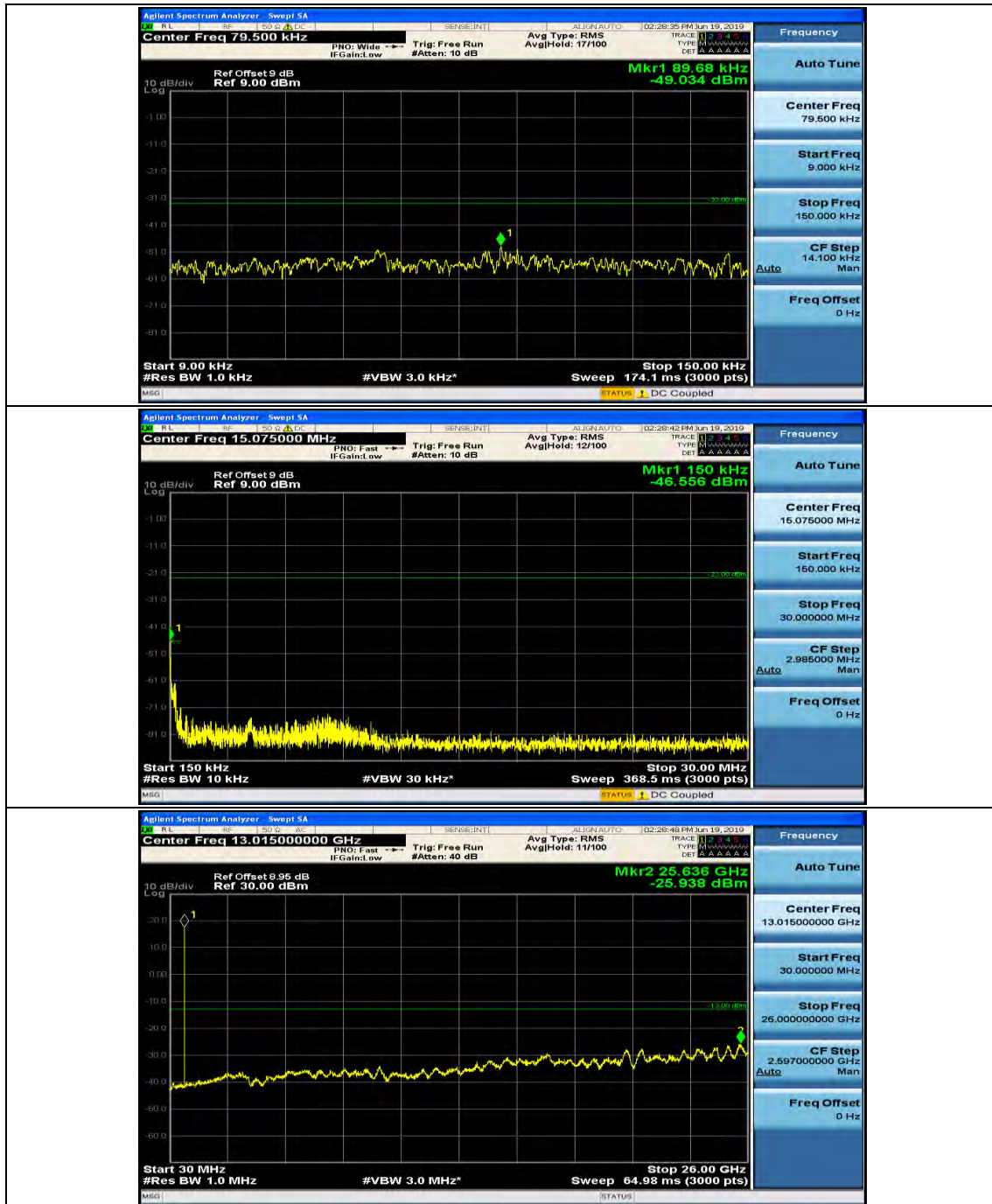
(Channel Bandwidth: 3 MHz)_HCH_16QAM_1RB#7



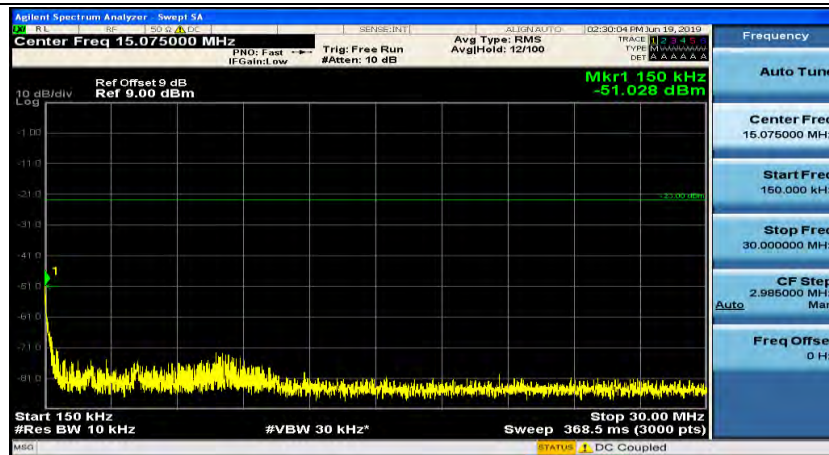
Channel Bandwidth: 5 MHz



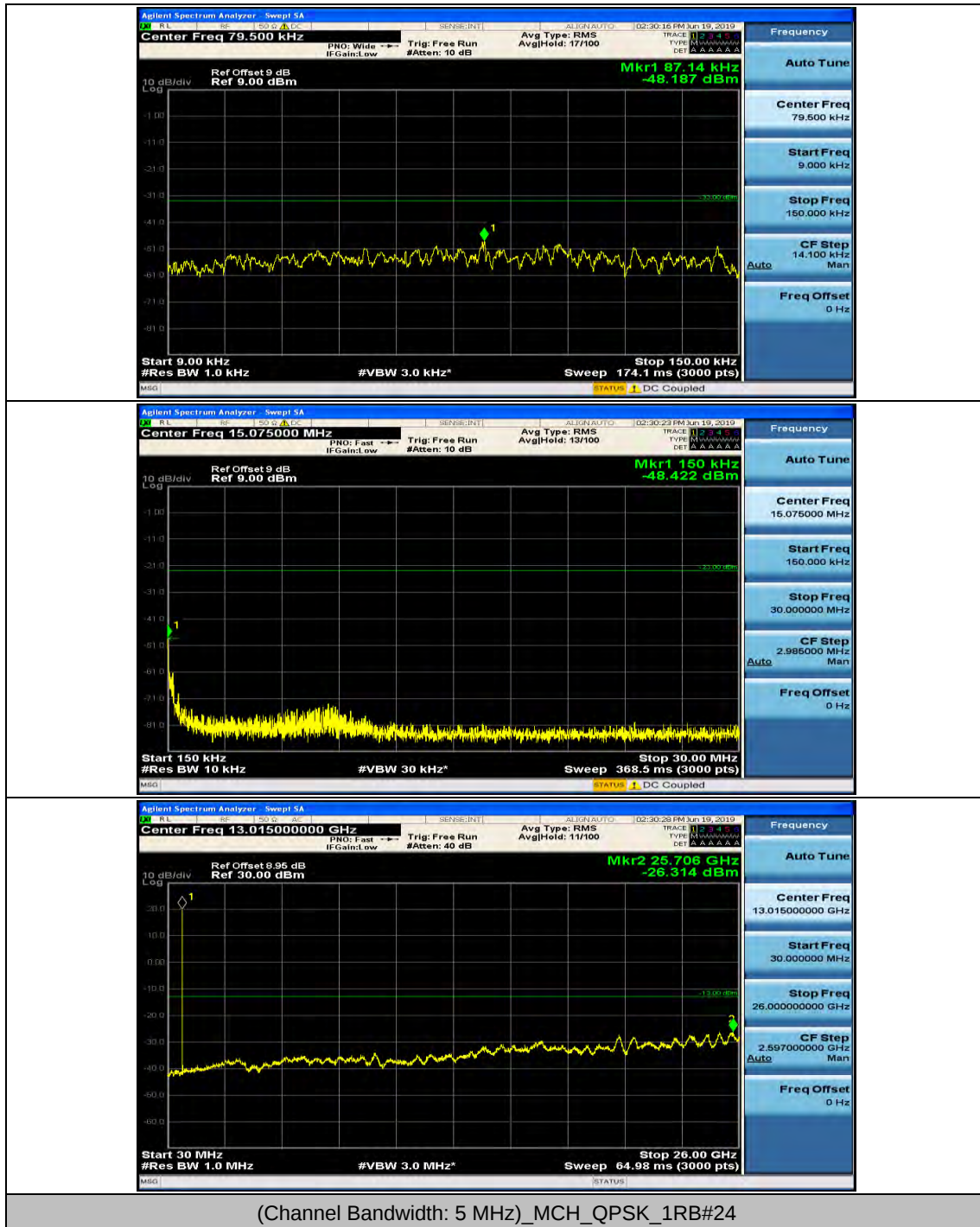


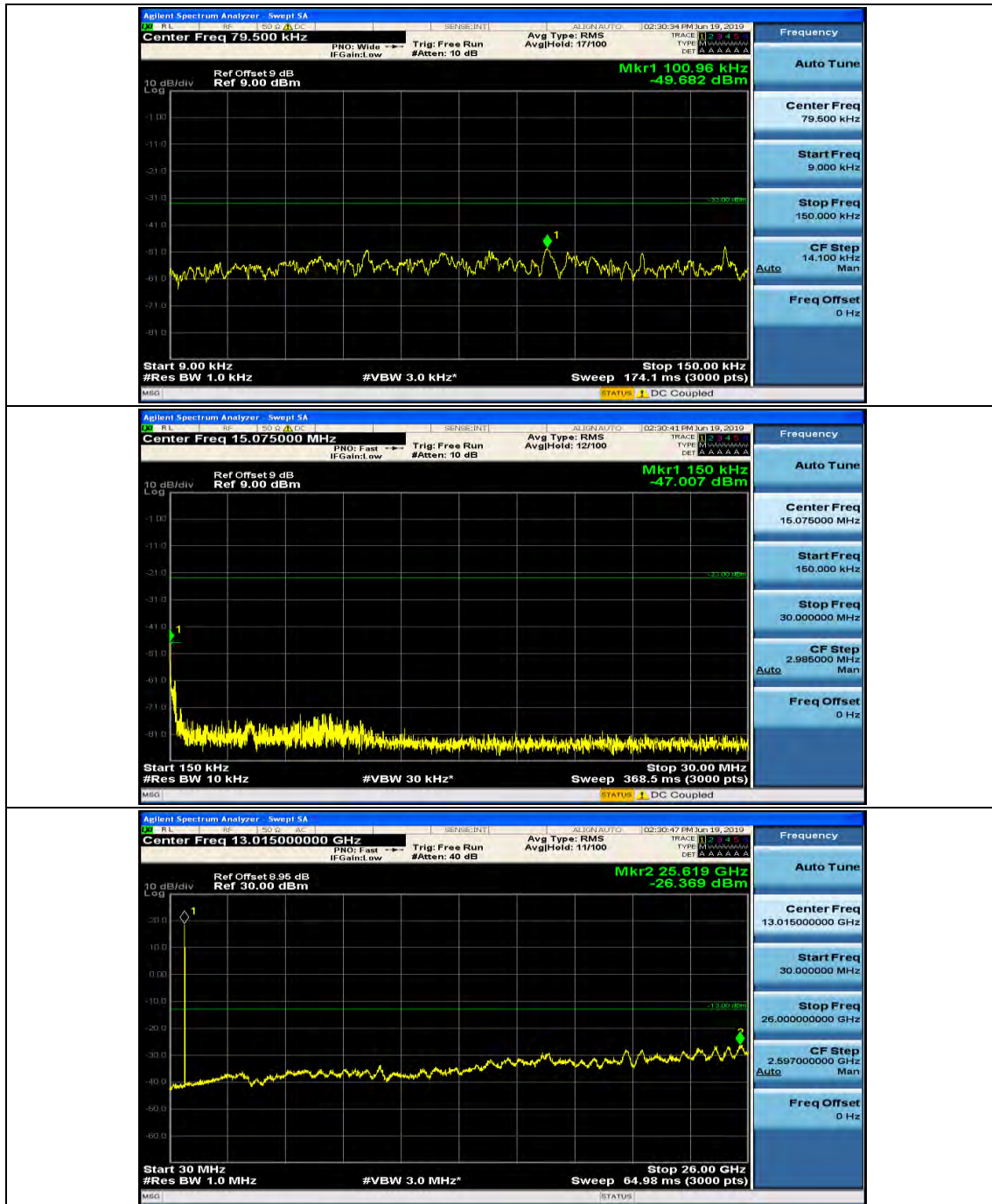


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#0

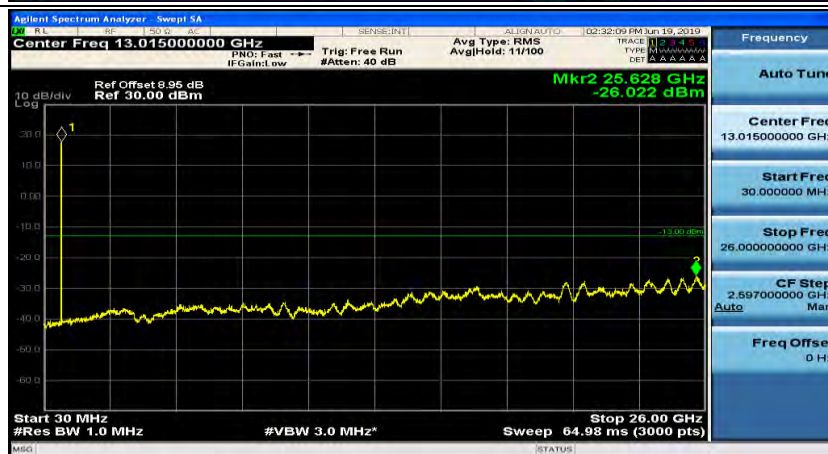
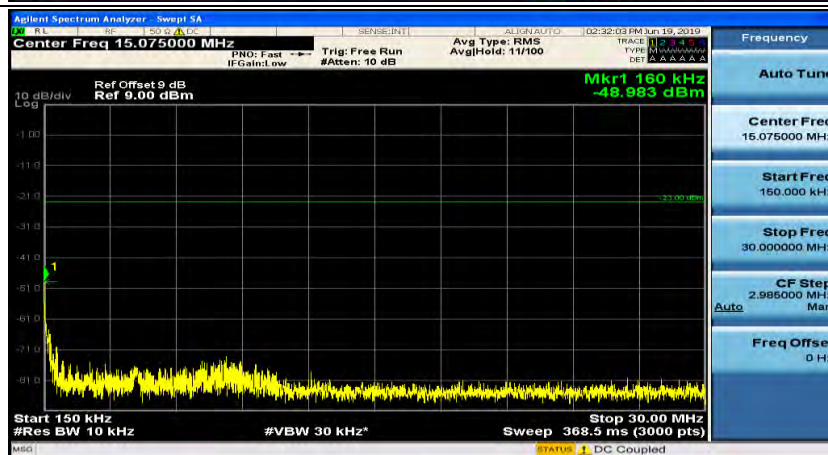


(Channel Bandwidth: 5 MHz)_MCH_QPSK_1RB#12

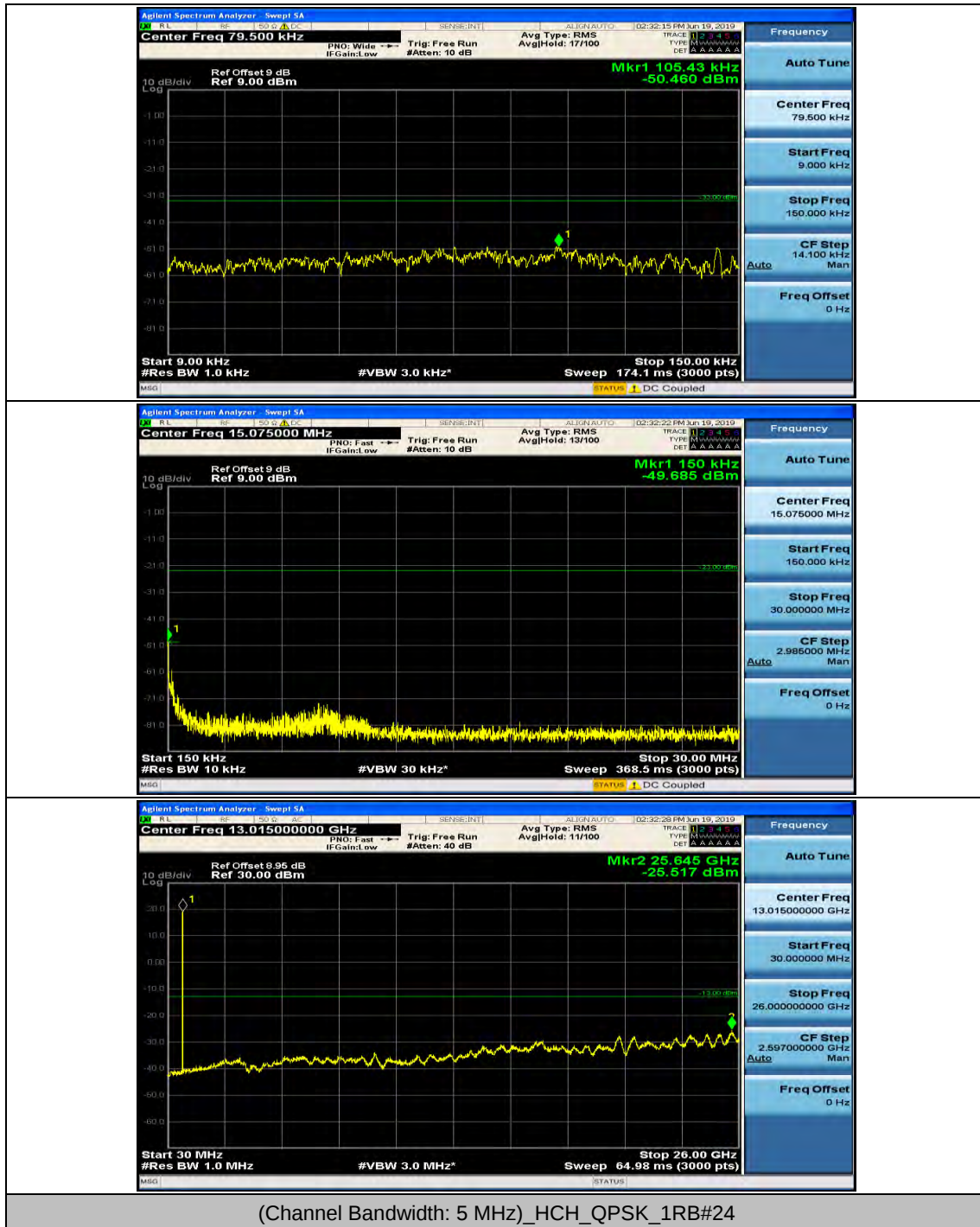


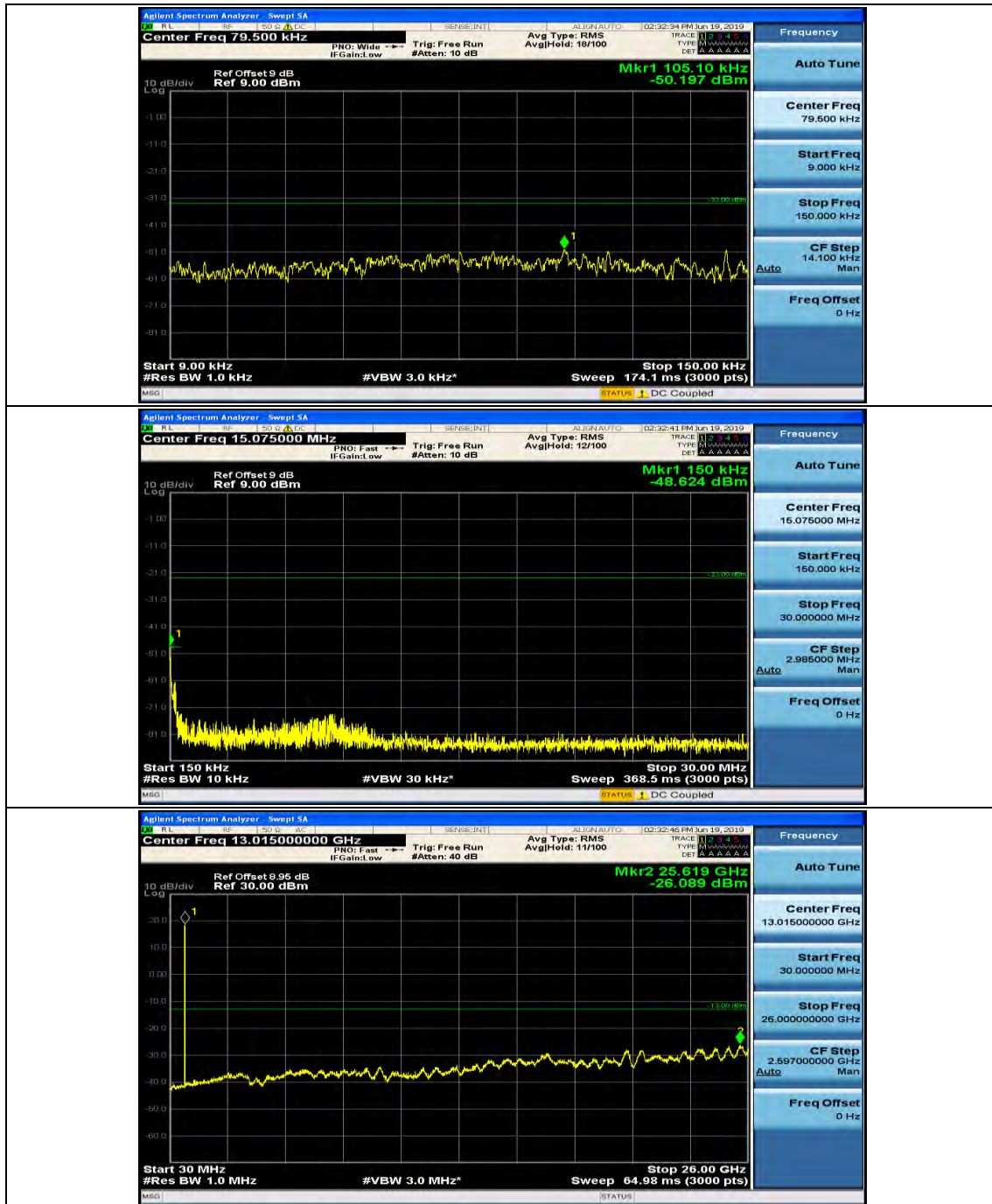


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#0

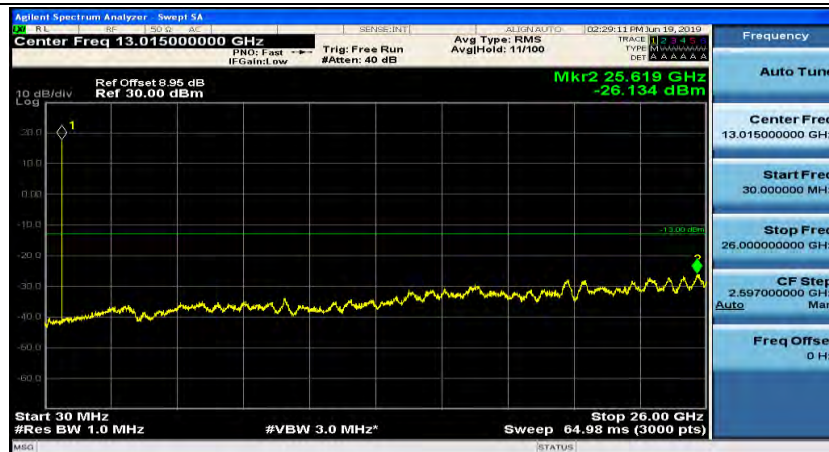
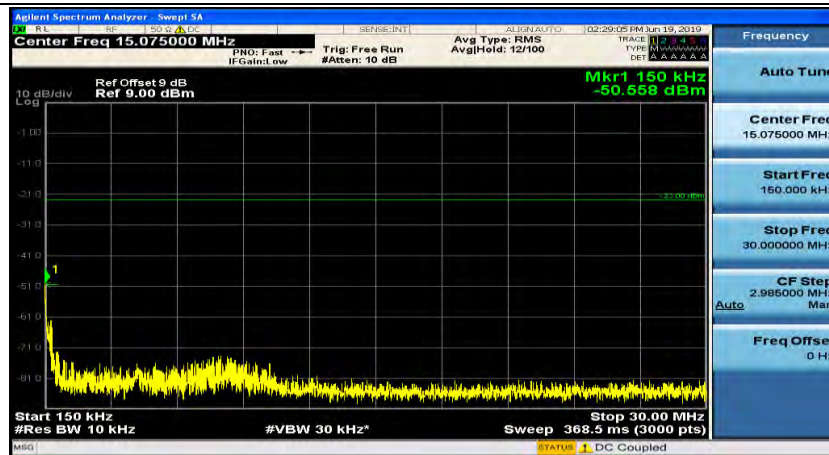


(Channel Bandwidth: 5 MHz)_HCH_QPSK_1RB#12

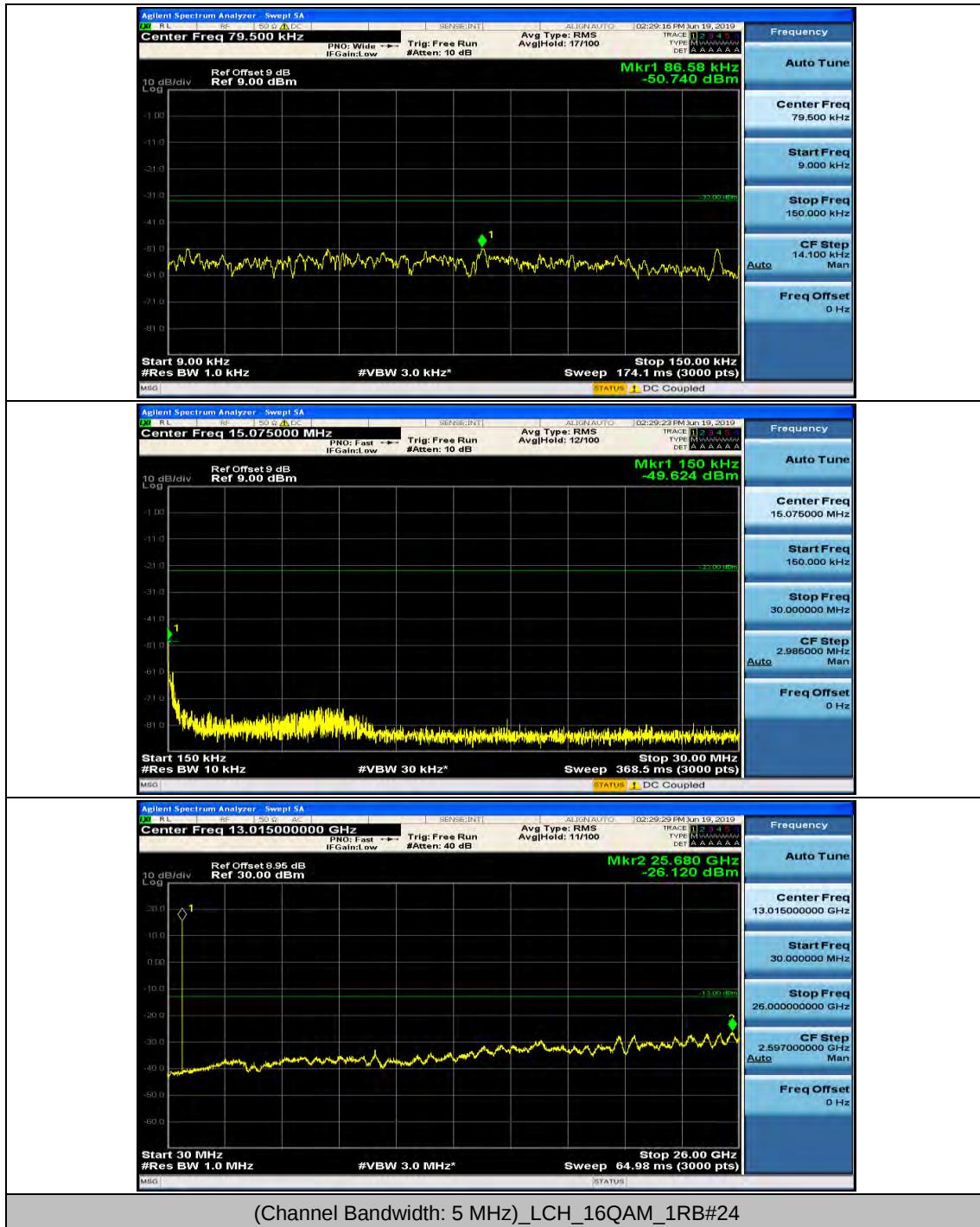


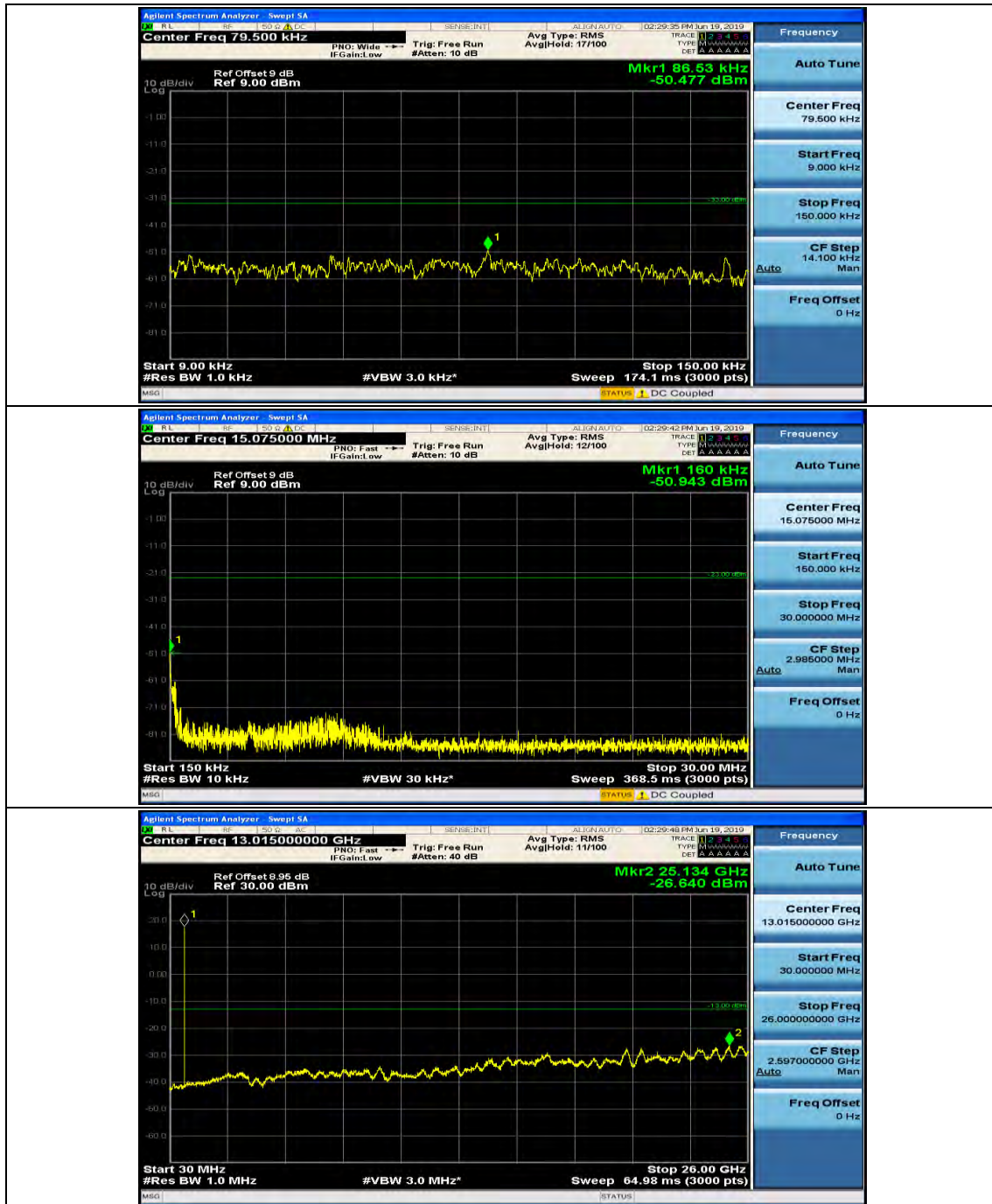


(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#0

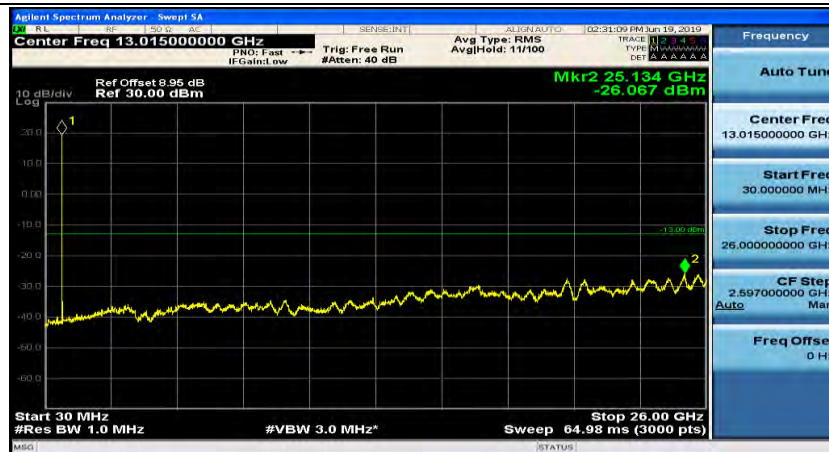
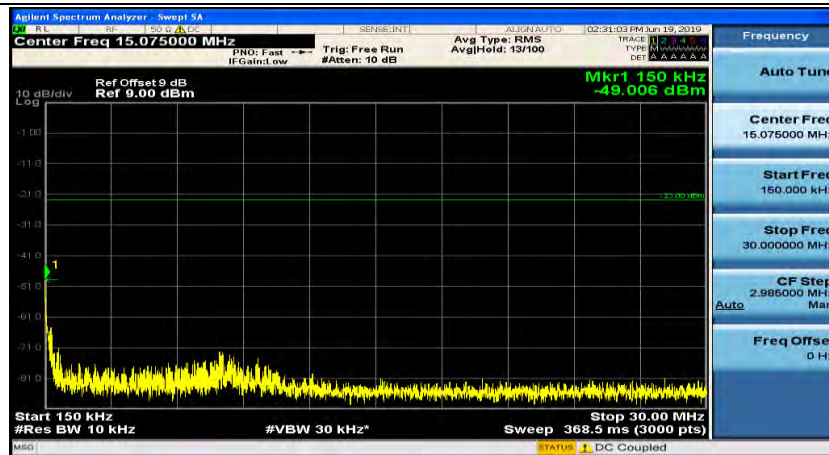
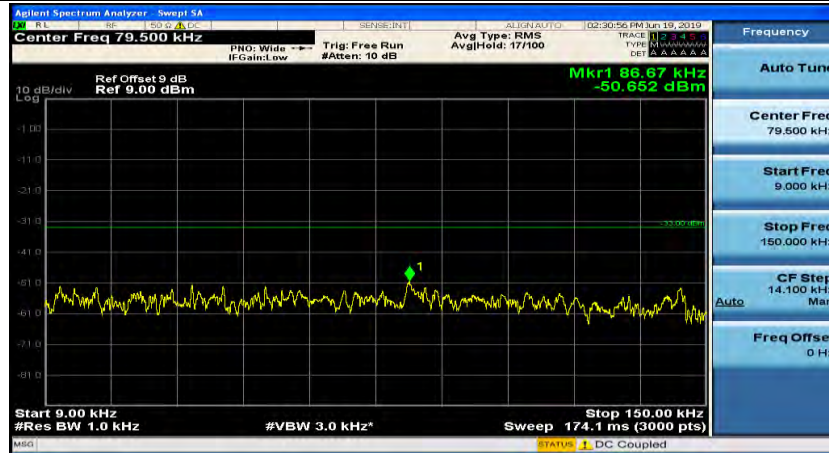


(Channel Bandwidth: 5 MHz)_LCH_16QAM_1RB#12

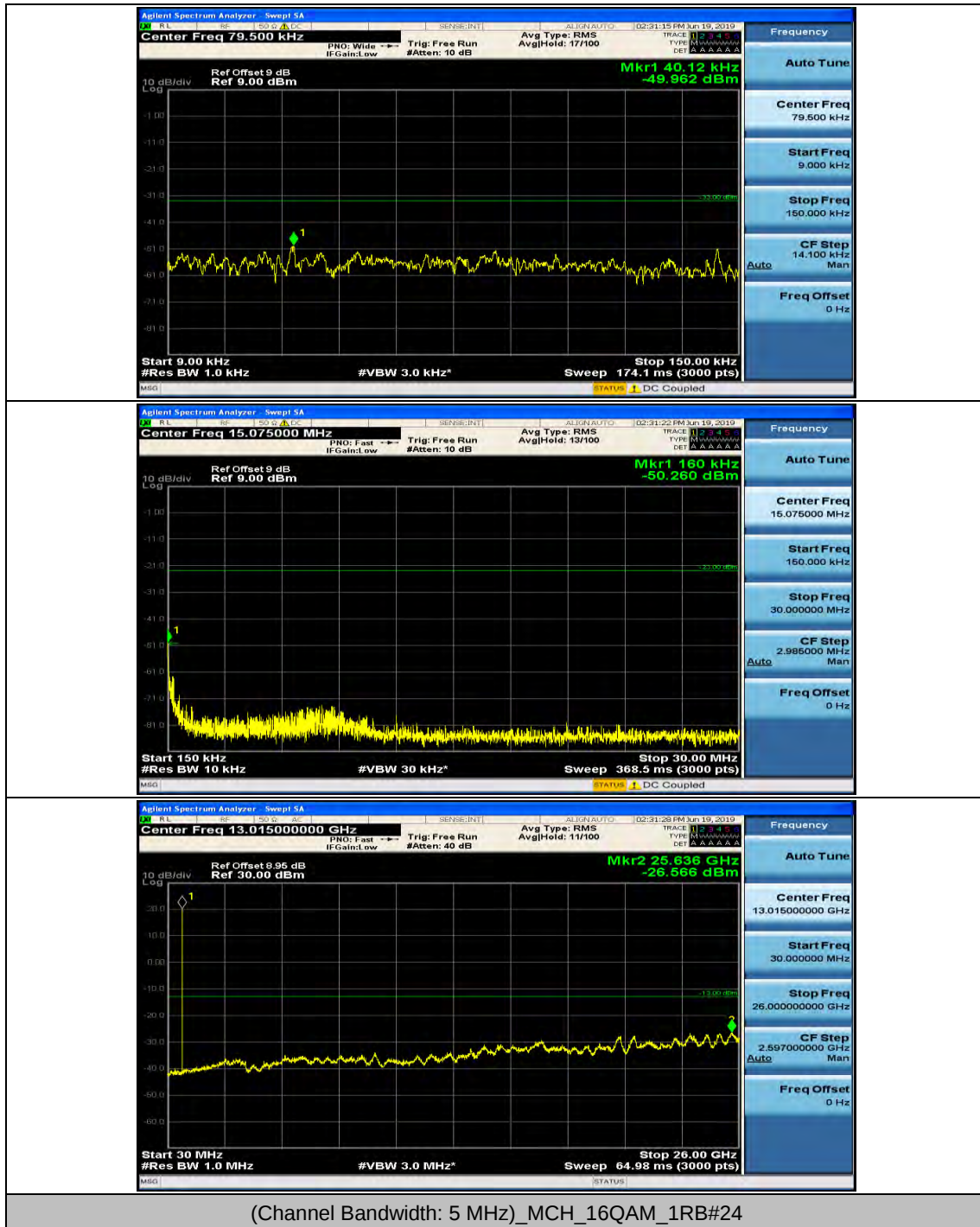


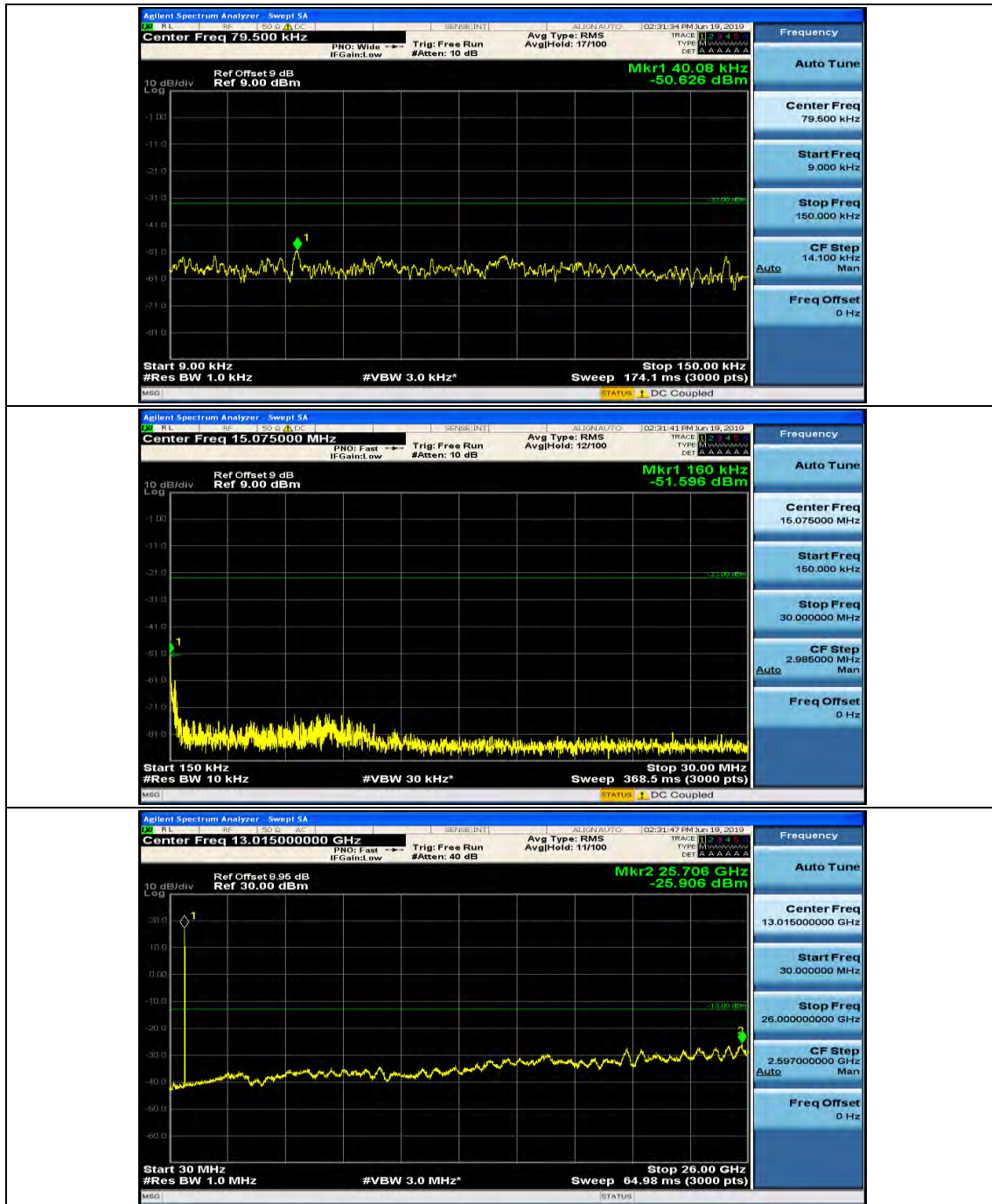


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#0

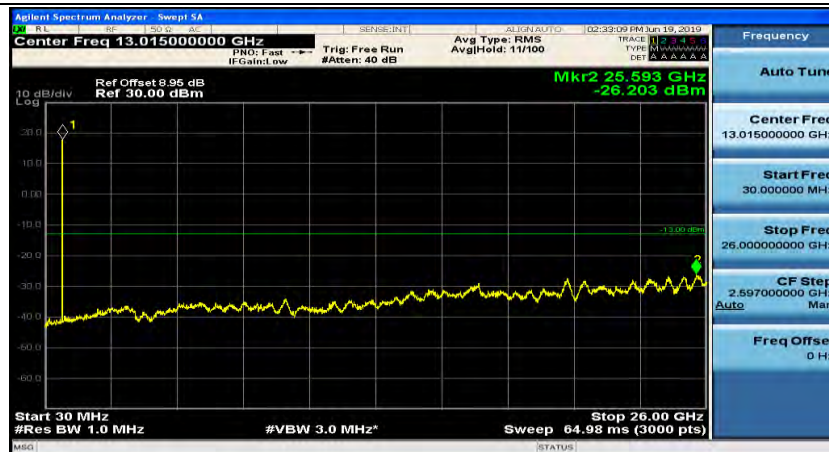
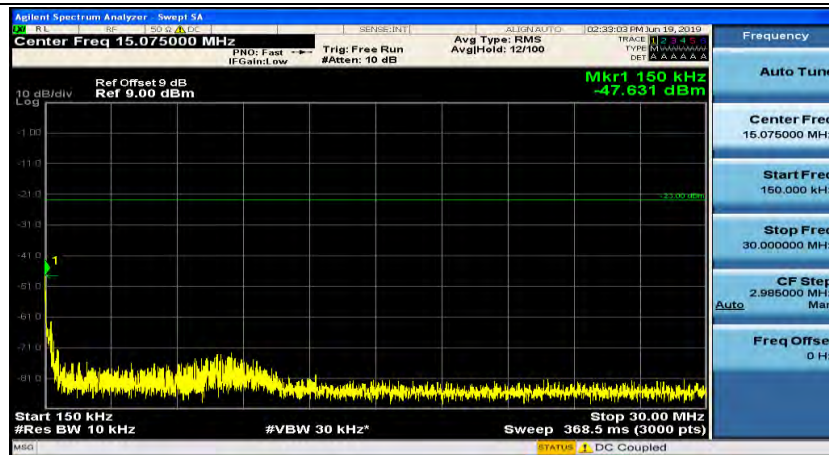


(Channel Bandwidth: 5 MHz)_MCH_16QAM_1RB#12

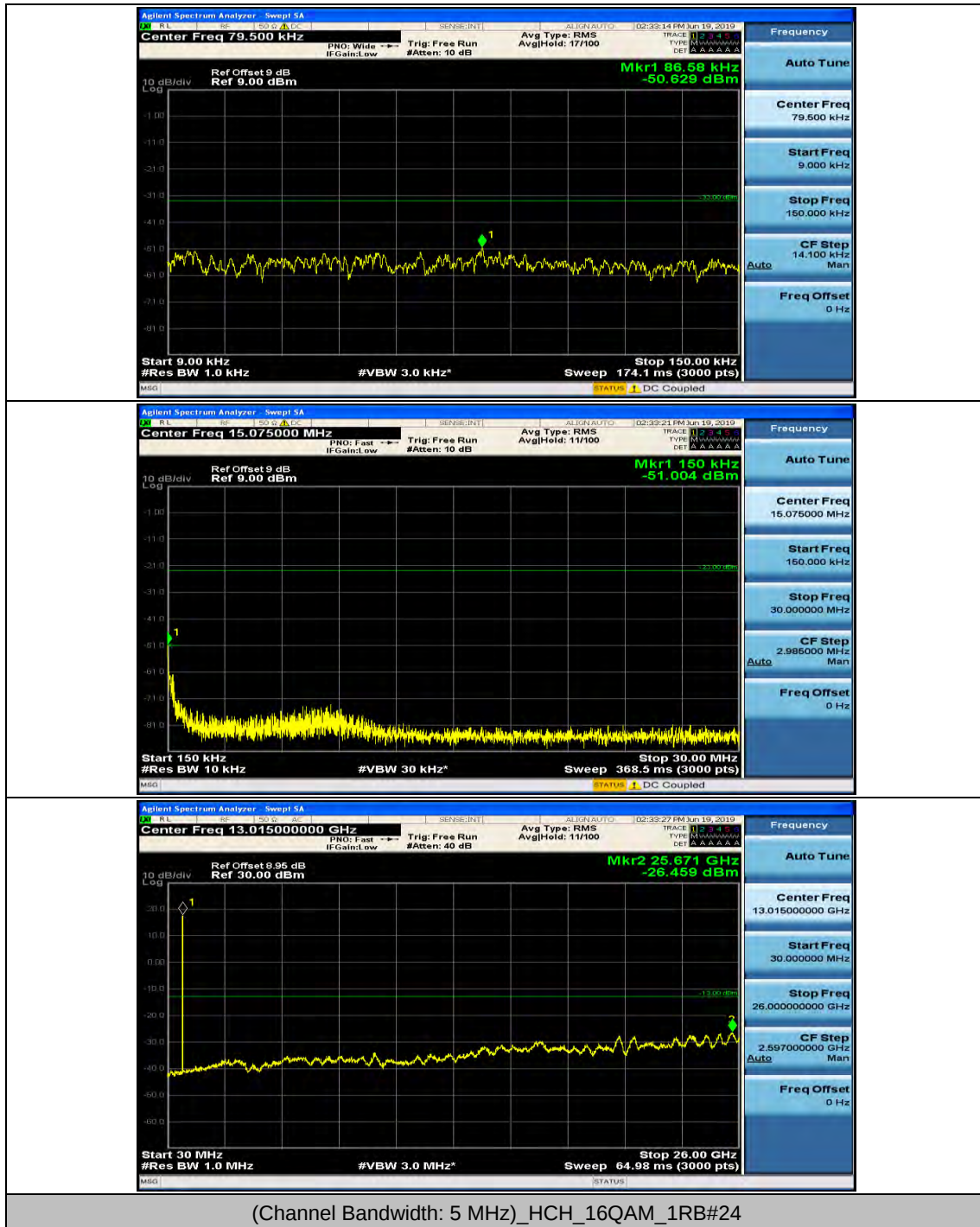


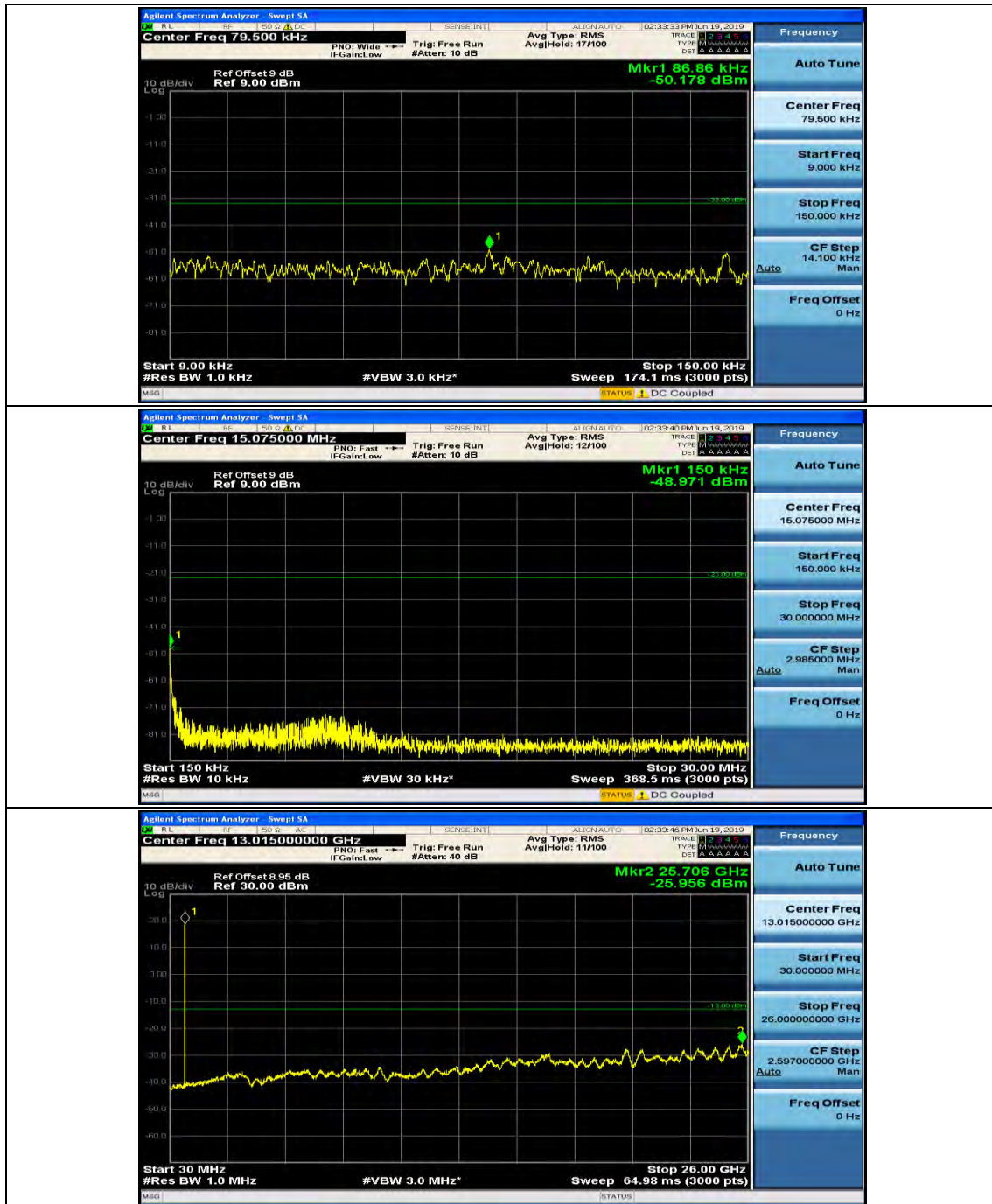


(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#0

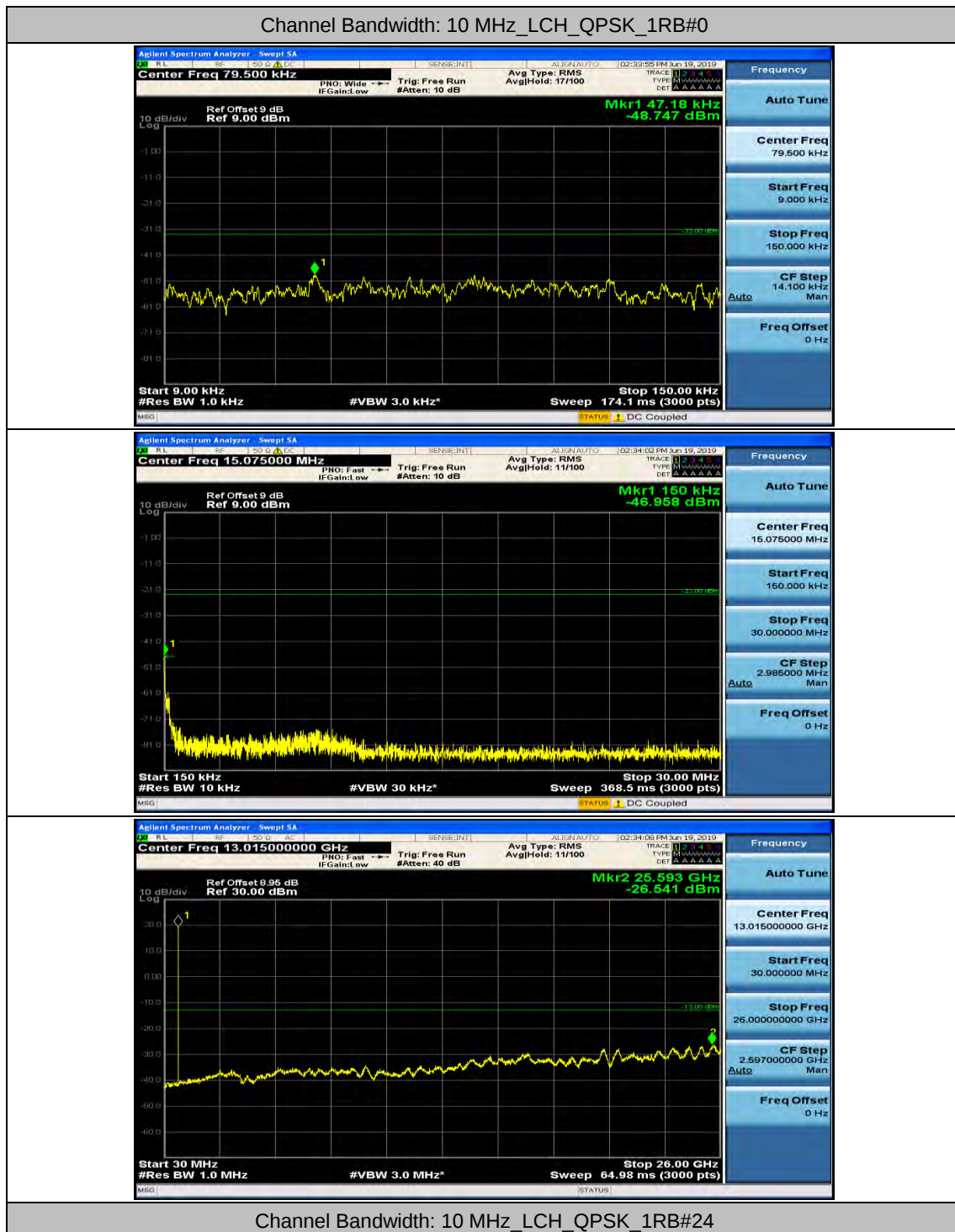


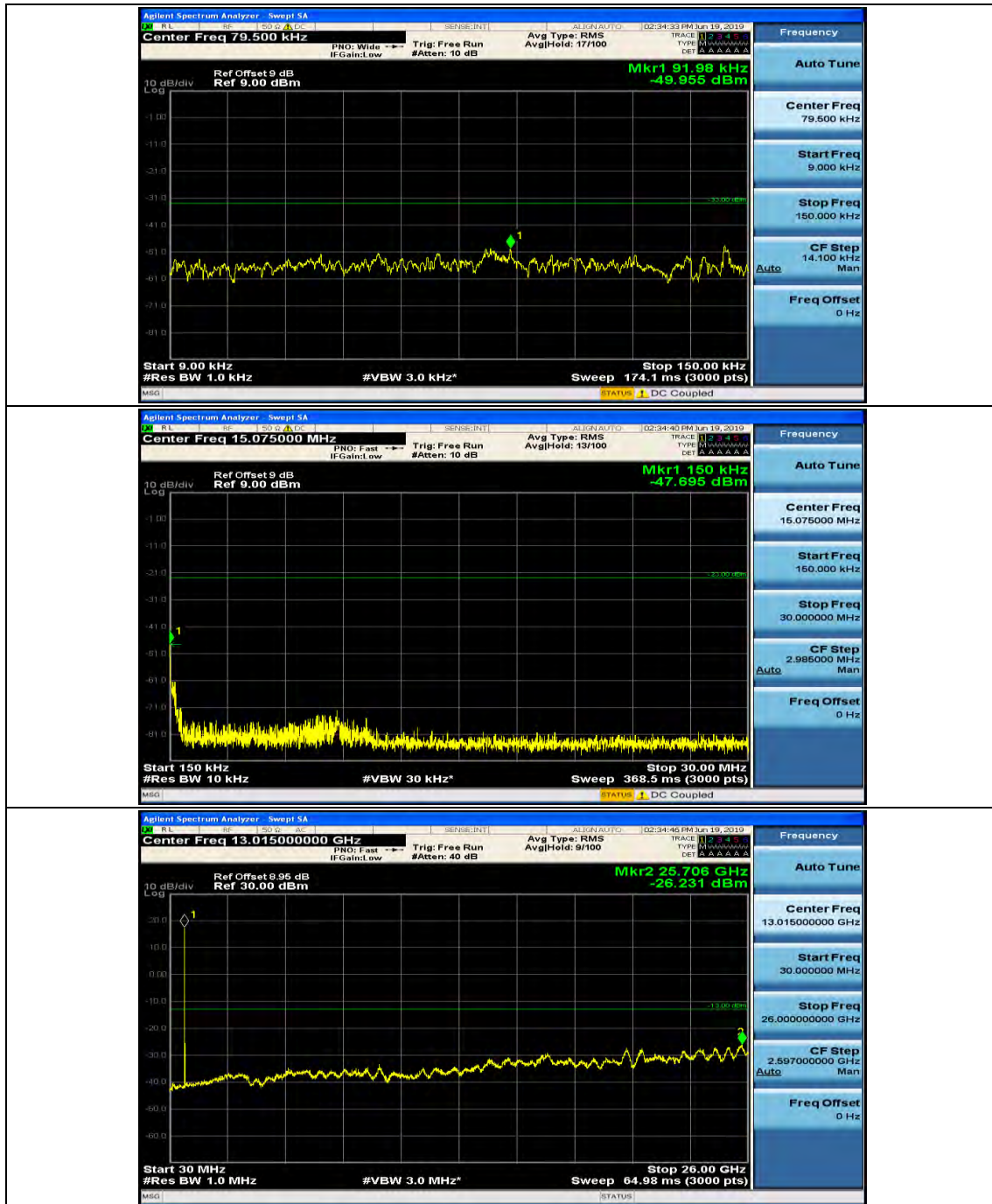
(Channel Bandwidth: 5 MHz)_HCH_16QAM_1RB#12



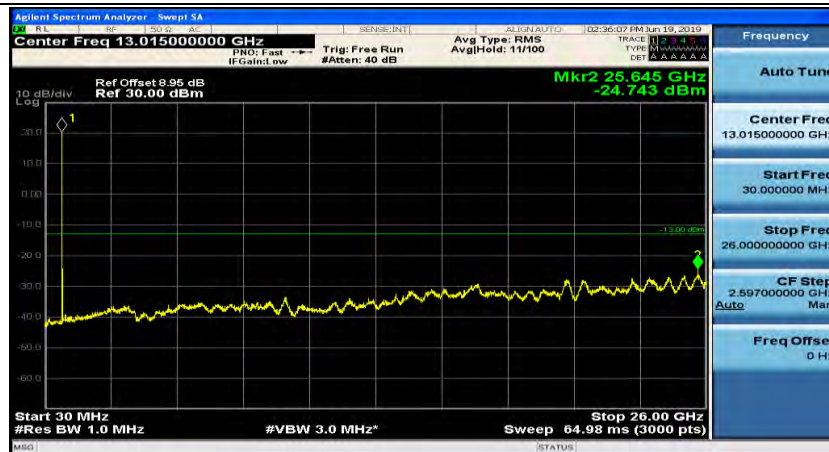
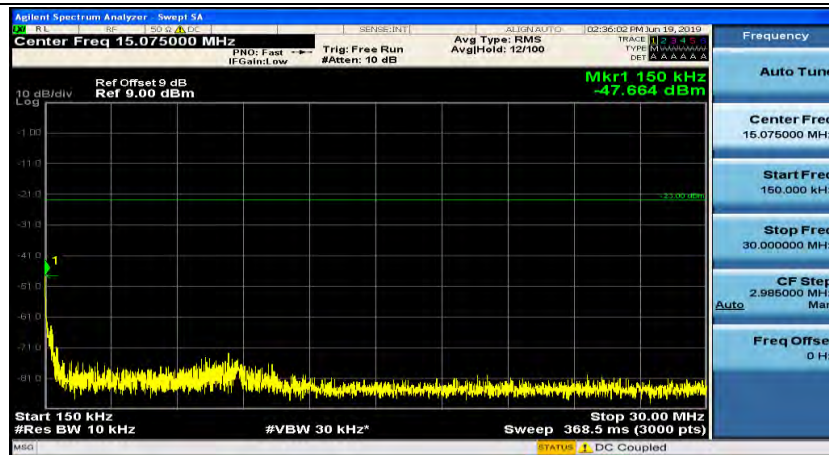


Channel Bandwidth: 10 MHz

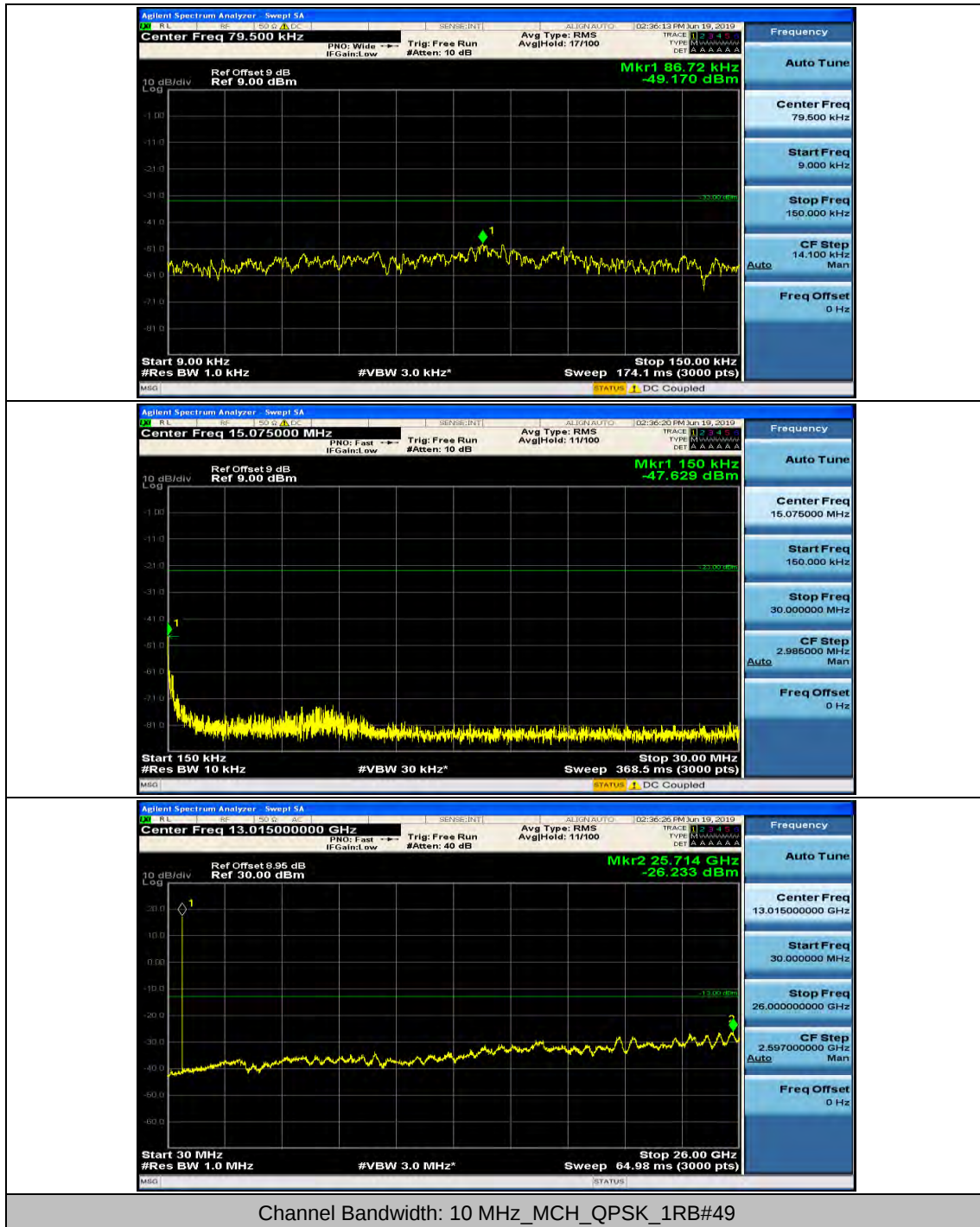


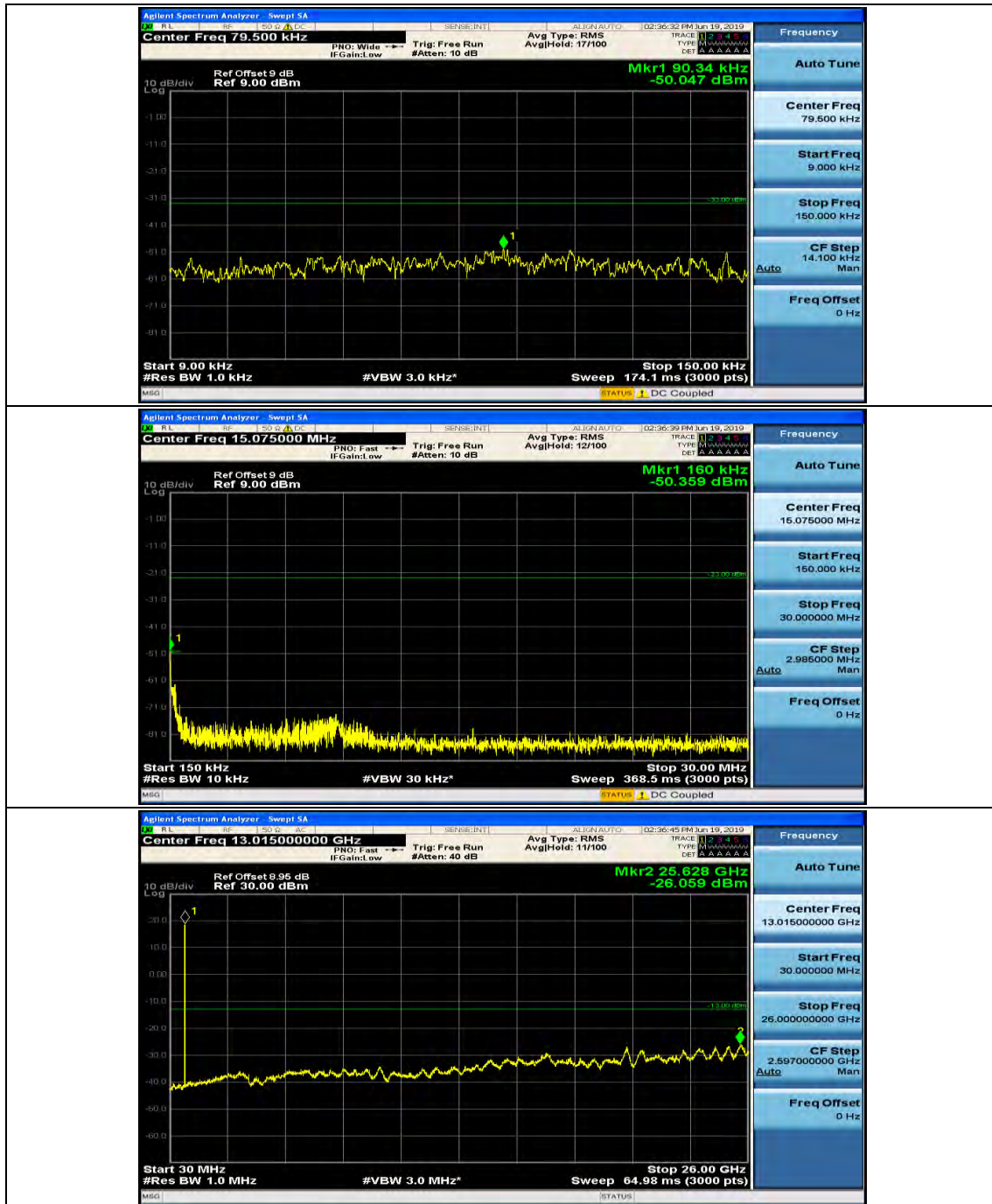


Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#0

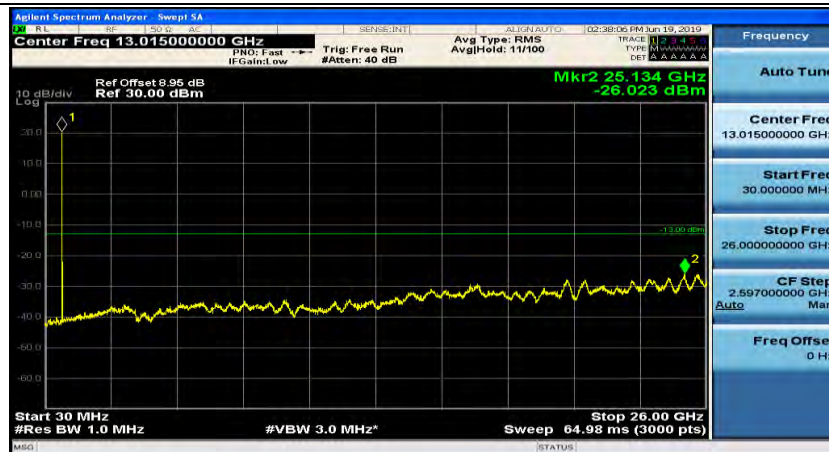
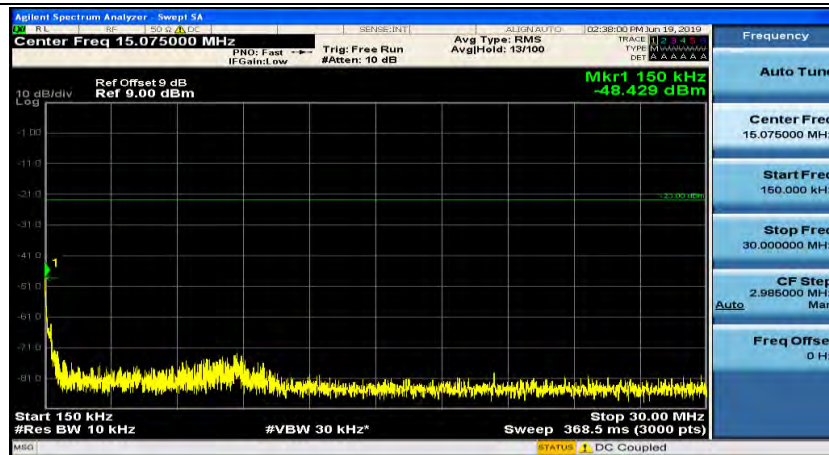


Channel Bandwidth: 10 MHz_MCH_QPSK_1RB#24

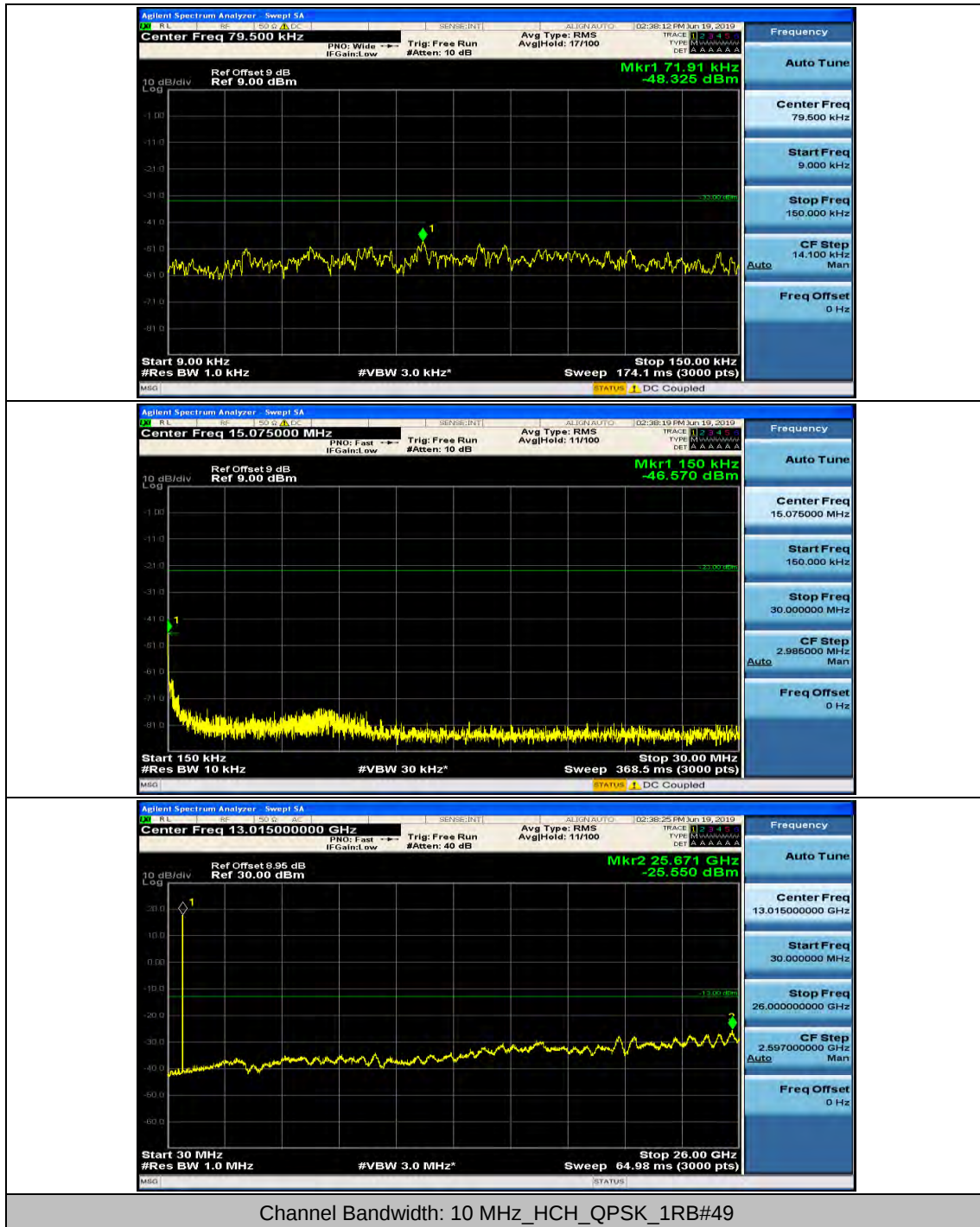


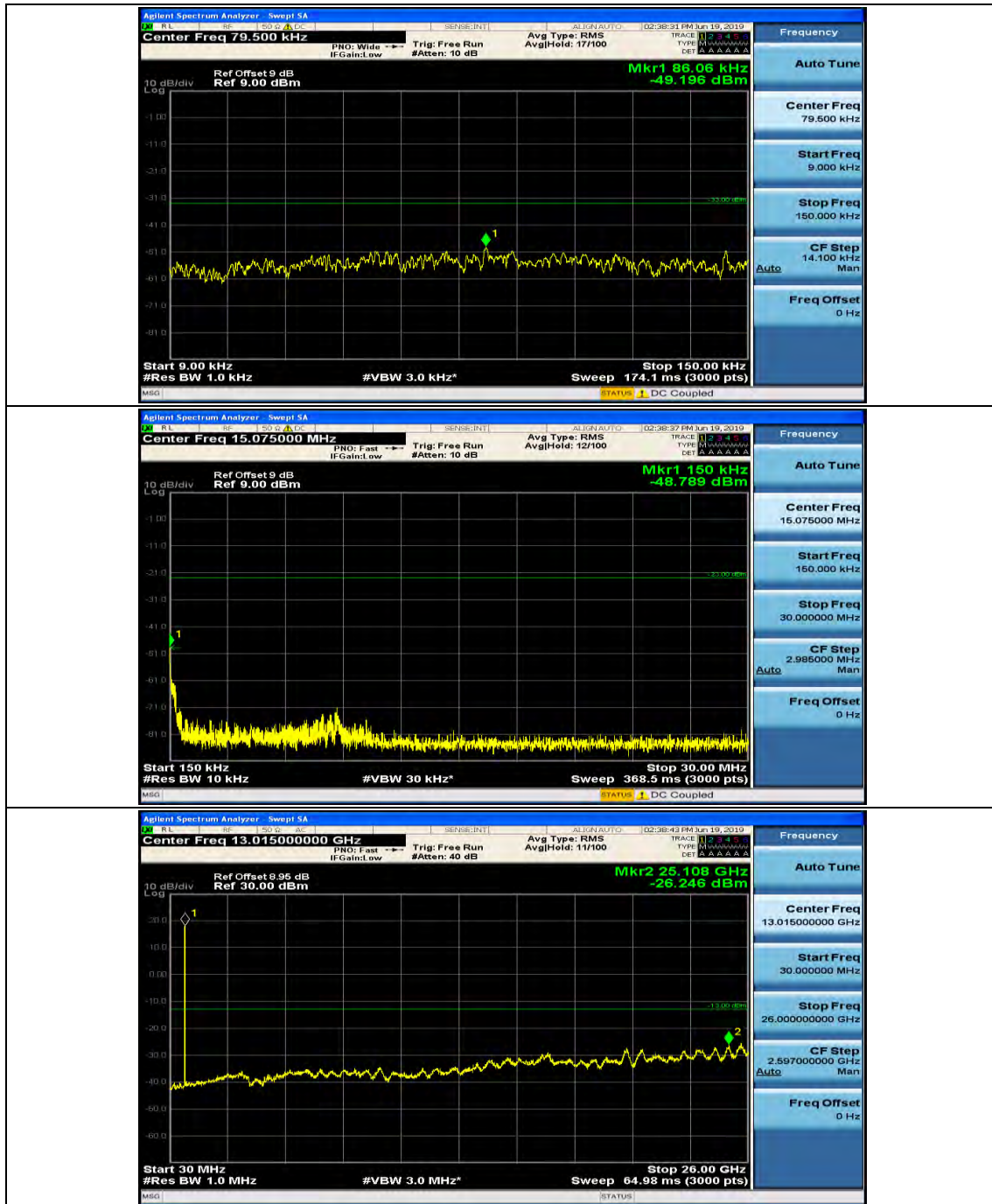


Channel Bandwidth: 10 MHz_HCH_QPSK_1RB#0

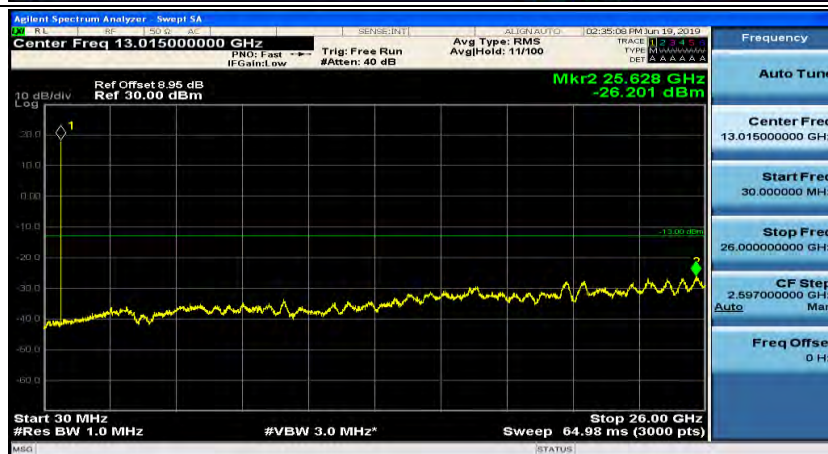
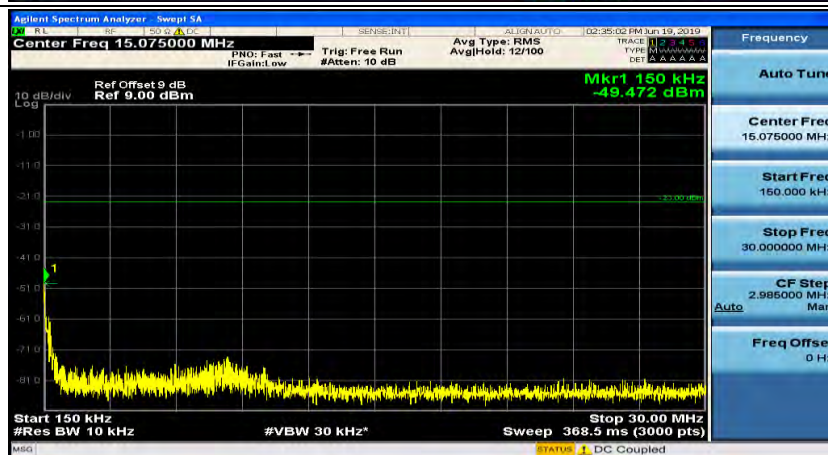
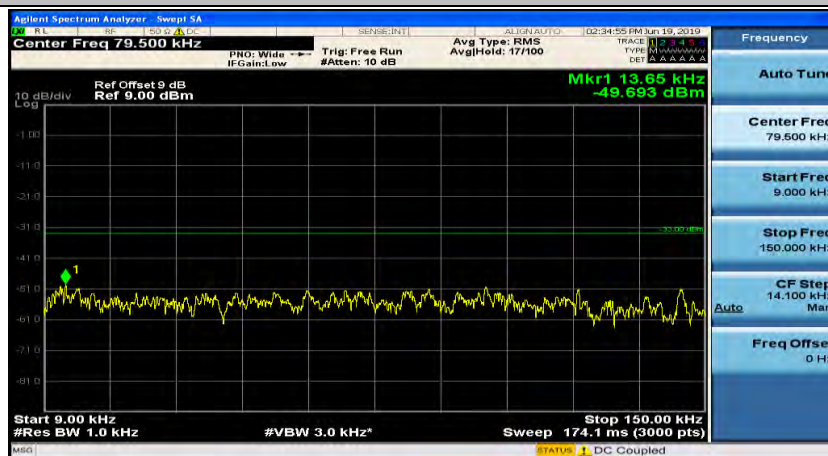


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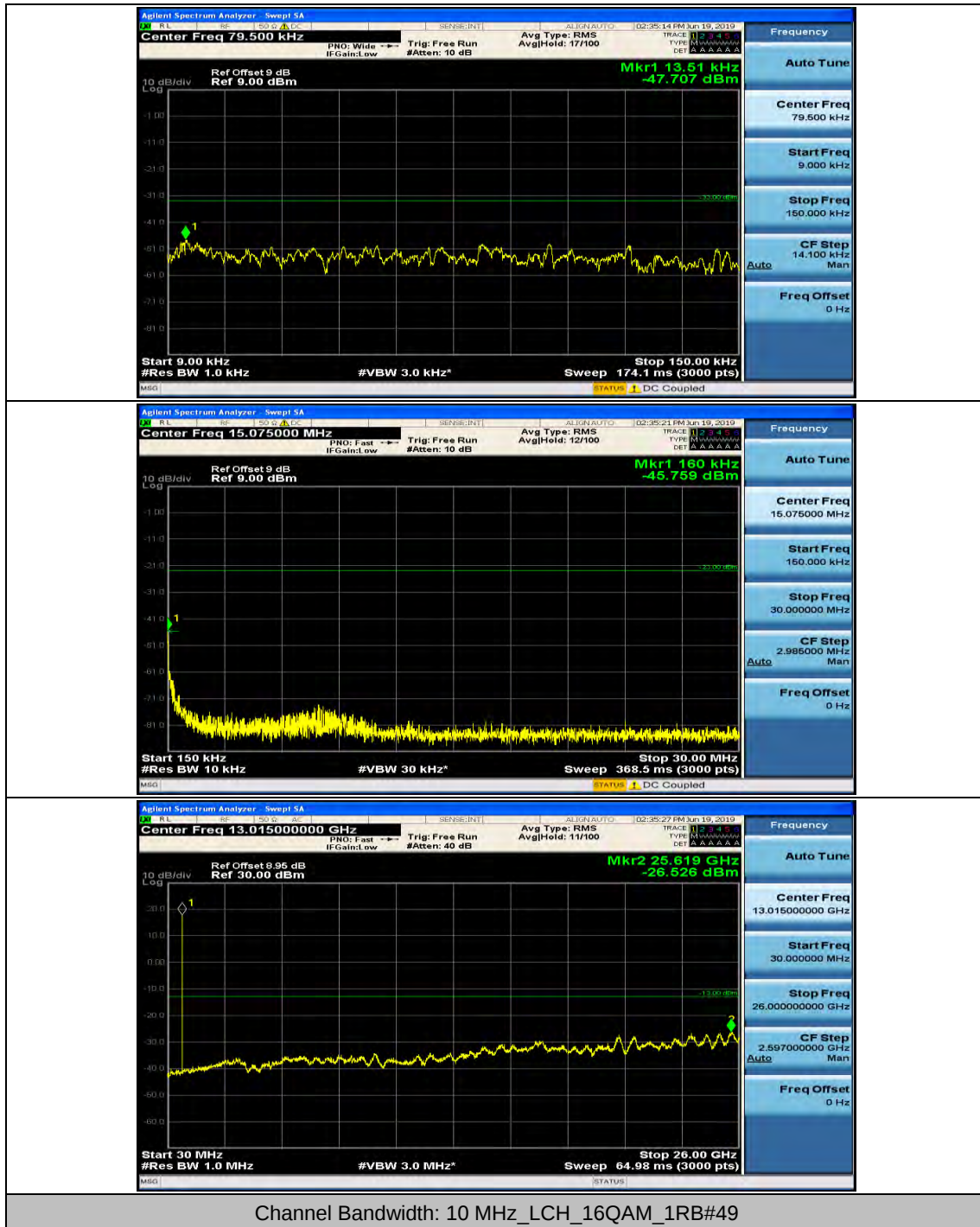


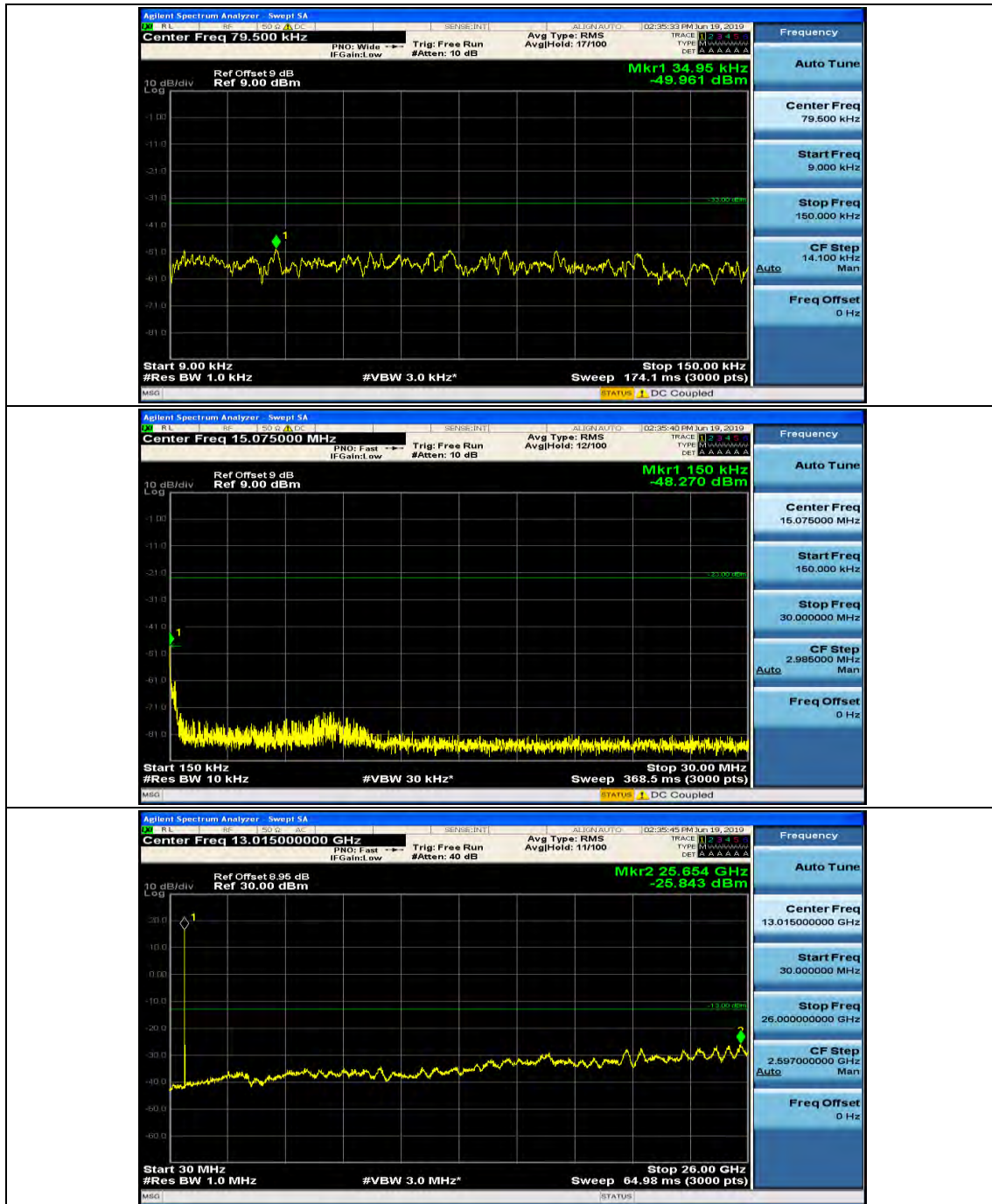


Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#0

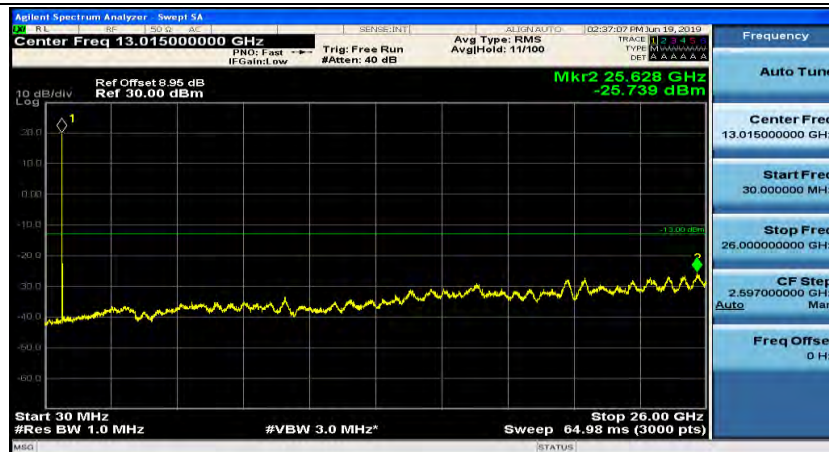
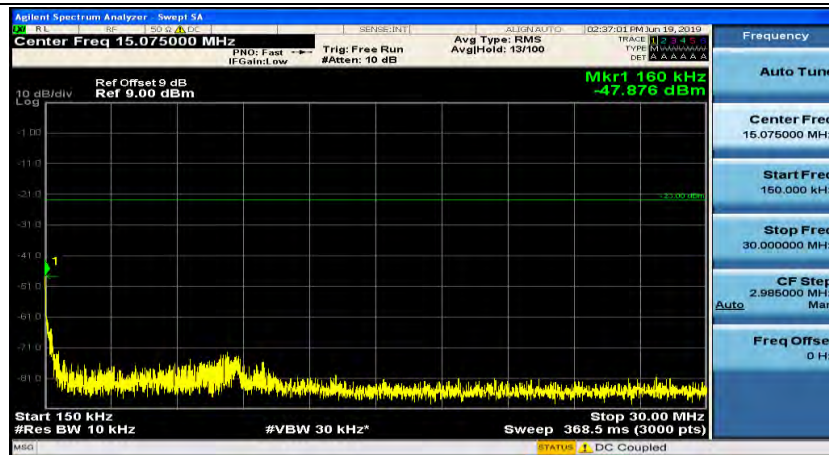
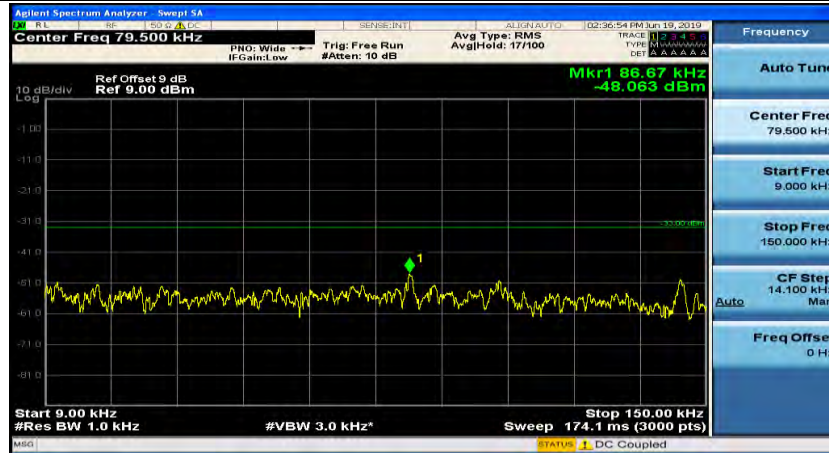


Channel Bandwidth: 10 MHz_LCH_16QAM_1RB#24

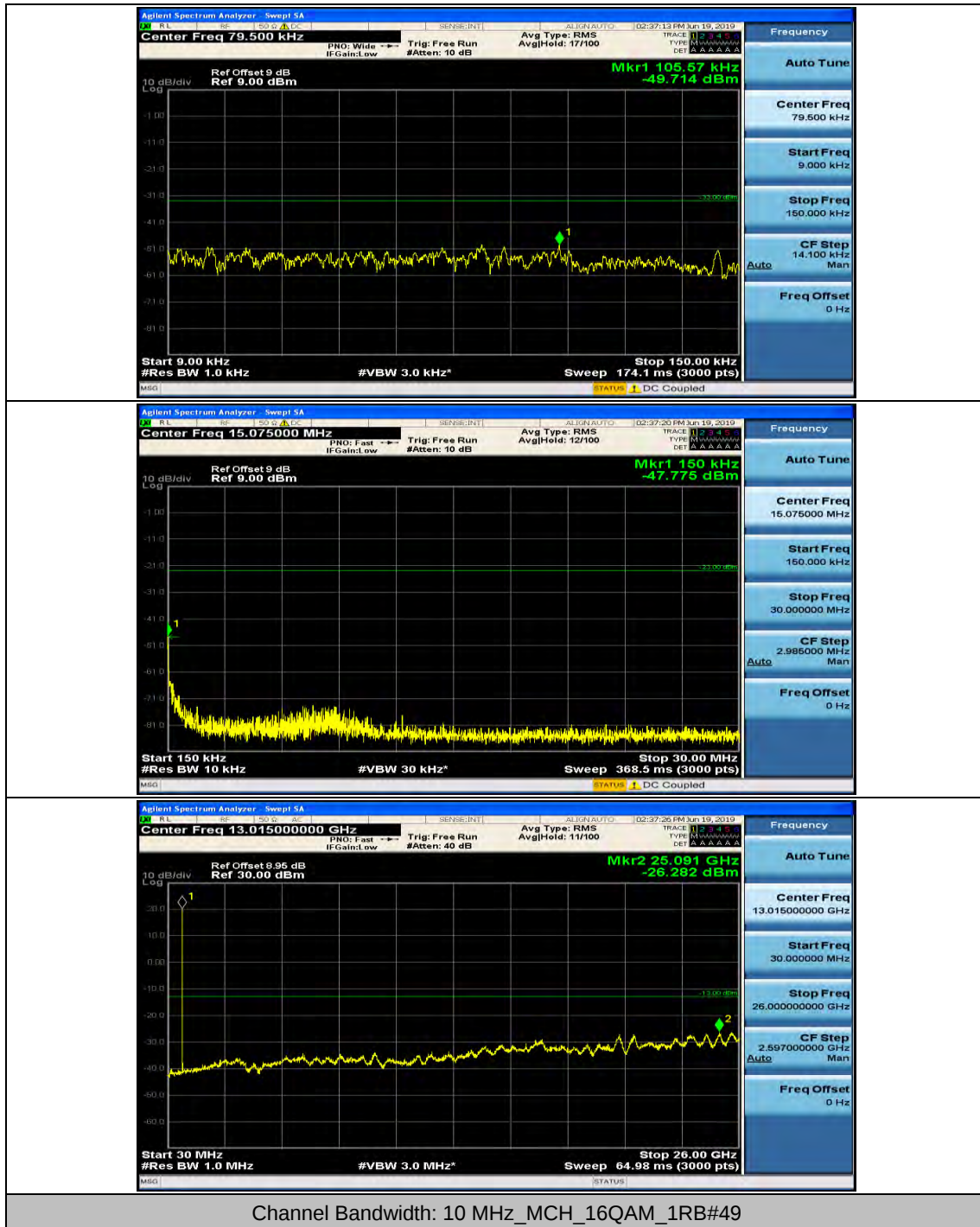


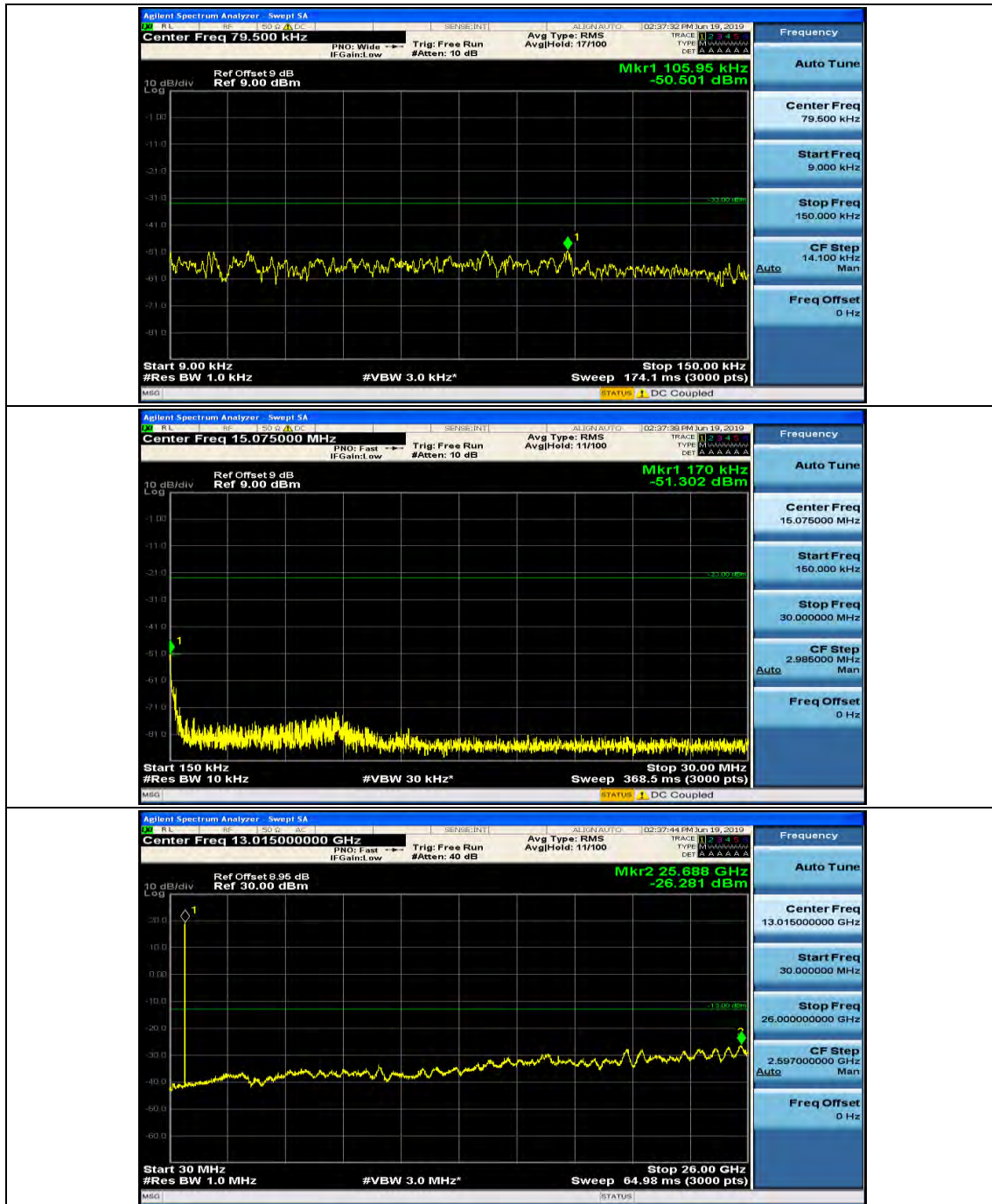


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#0

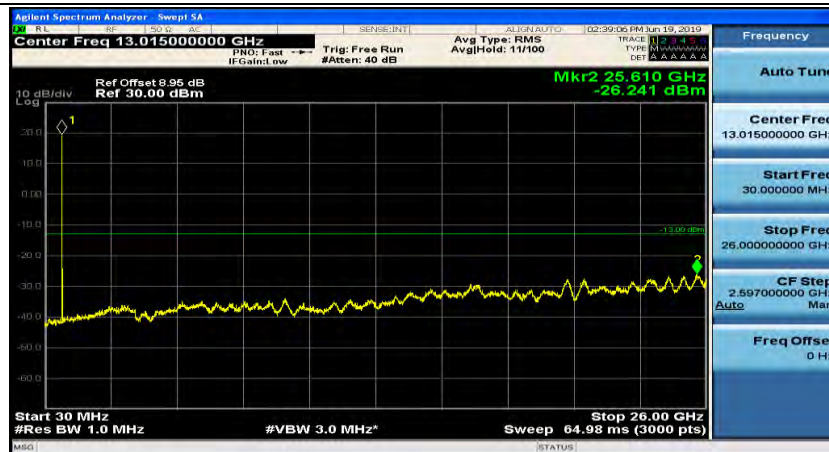
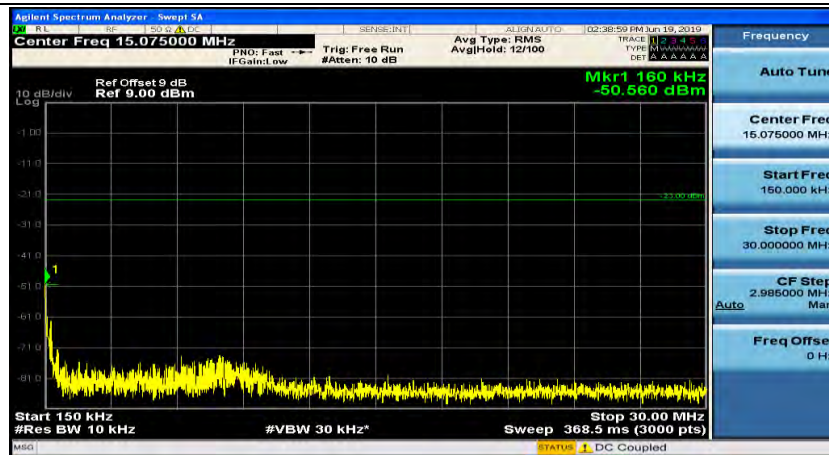


Channel Bandwidth: 10 MHz_MCH_16QAM_1RB#24

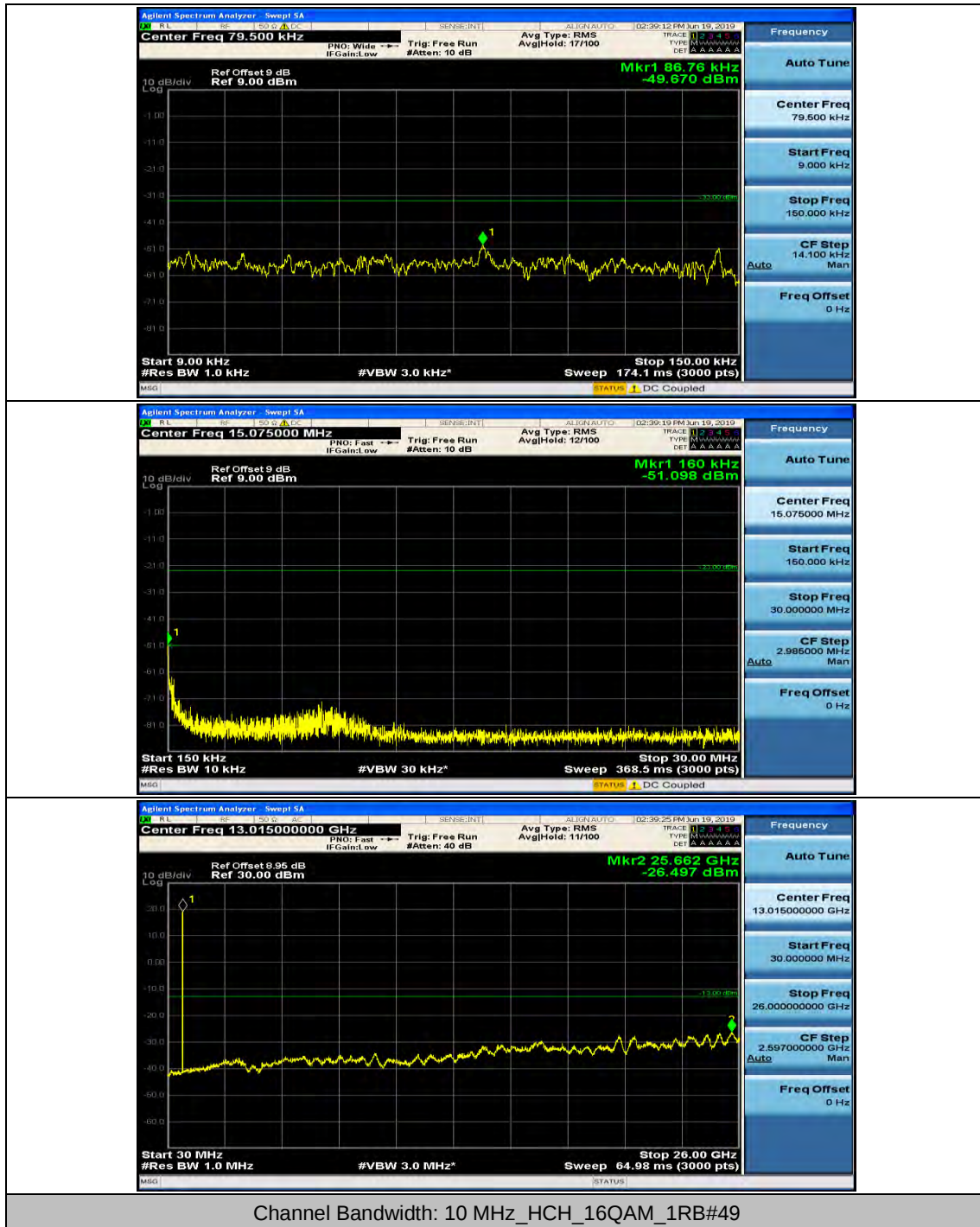


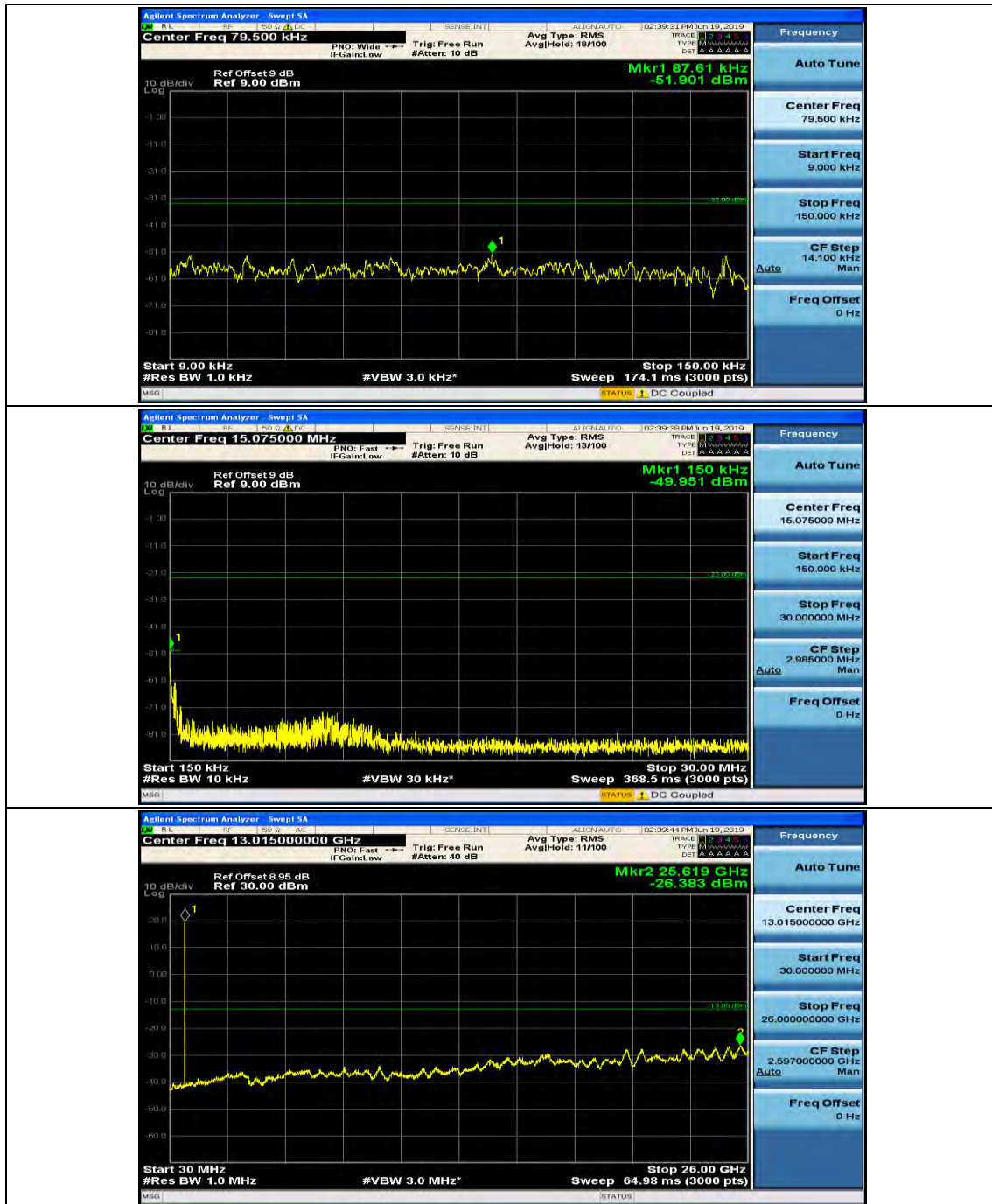


Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#0



Channel Bandwidth: 10 MHz_HCH_16QAM_1RB#24





Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	3.99	0.005702	± 2.5	PASS
		VN	TN	2.93	0.004188	± 2.5	PASS
		VH	TN	1.16	0.001658	± 2.5	PASS
	MCH	VL	TN	3.32	0.004693	± 2.5	PASS
		VN	TN	4.23	0.005979	± 2.5	PASS
		VH	TN	-1.54	-0.002177	± 2.5	PASS
	HCH	VL	TN	0.84	0.001174	± 2.5	PASS
		VN	TN	2.3	0.003215	± 2.5	PASS
		VH	TN	1.76	0.002461	± 2.5	PASS
16QAM	LCH	VL	TN	1.1	0.001572	± 2.5	PASS
		VN	TN	0.64	0.000915	± 2.5	PASS
		VH	TN	-1.76	-0.002515	± 2.5	PASS
	MCH	VL	TN	-1.71	-0.002417	± 2.5	PASS
		VN	TN	1.78	0.002516	± 2.5	PASS
		VH	TN	-1.1	-0.001555	± 2.5	PASS
	HCH	VL	TN	0	0.000000	± 2.5	PASS
		VN	TN	-0.84	-0.001174	± 2.5	PASS
		VH	TN	-1.31	-0.001831	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-1.45	-0.002072	± 2.5	PASS
		VN	-20	-1.48	-0.002115	± 2.5	PASS
		VN	-10	0.49	0.000700	± 2.5	PASS
		VN	0	0.3	0.000429	± 2.5	PASS
		VN	10	2.04	0.002916	± 2.5	PASS
		VN	20	4.15	0.005931	± 2.5	PASS
		VN	30	1.48	0.002115	± 2.5	PASS
		VN	40	-0.52	-0.000743	± 2.5	PASS
		VN	50	1.09	0.001558	± 2.5	PASS
	MCH	VN	-30	0.64	0.000905	± 2.5	PASS
		VN	-20	1.84	0.002601	± 2.5	PASS

		VN	-10	-0.19	-0.000269	± 2.5	PASS
		VN	0	2.44	0.003449	± 2.5	PASS
		VN	10	-1.92	-0.002714	± 2.5	PASS
		VN	20	0.44	0.000622	± 2.5	PASS
		VN	30	-0.46	-0.000650	± 2.5	PASS
		VN	40	2.29	0.003237	± 2.5	PASS
		VN	50	1.22	0.001724	± 2.5	PASS
	HCH	VN	-30	0.31	0.000433	± 2.5	PASS
		VN	-20	0.9	0.001258	± 2.5	PASS
		VN	-10	-1.63	-0.002279	± 2.5	PASS
		VN	0	3.62	0.005061	± 2.5	PASS
		VN	10	2.39	0.003341	± 2.5	PASS
		VN	20	0.79	0.001104	± 2.5	PASS
		VN	30	1.21	0.001692	± 2.5	PASS
		VN	40	3.88	0.005424	± 2.5	PASS
		VN	50	-1.31	-0.001831	± 2.5	PASS
16QAM	LCH	VN	-30	2.67	0.003816	± 2.5	PASS
		VN	-20	0.95	0.001358	± 2.5	PASS
		VN	-10	0.71	0.001015	± 2.5	PASS
		VN	0	-0.05	-0.000071	± 2.5	PASS
		VN	10	-1.64	-0.002344	± 2.5	PASS
		VN	20	0.26	0.000372	± 2.5	PASS
		VN	30	0	0.000000	± 2.5	PASS
		VN	40	-0.99	-0.001415	± 2.5	PASS
		VN	50	4.08	0.005831	± 2.5	PASS
	MCH	VN	-30	-0.01	-0.000014	± 2.5	PASS
		VN	-20	-1.87	-0.002643	± 2.5	PASS
		VN	-10	2.75	0.003887	± 2.5	PASS
		VN	0	3.25	0.004594	± 2.5	PASS
		VN	10	-0.07	-0.000099	± 2.5	PASS
		VN	20	3.11	0.004396	± 2.5	PASS
		VN	30	-1.04	-0.001470	± 2.5	PASS
		VN	40	2.55	0.003604	± 2.5	PASS
		VN	50	1.9	0.002686	± 2.5	PASS
	HCH	VN	-30	3.54	0.004949	± 2.5	PASS
		VN	-20	0.47	0.000657	± 2.5	PASS
		VN	-10	1.99	0.002782	± 2.5	PASS
		VN	0	2.25	0.003146	± 2.5	PASS
		VN	10	1.06	0.001482	± 2.5	PASS
		VN	20	-1.8	-0.002516	± 2.5	PASS
		VN	30	-0.52	-0.000727	± 2.5	PASS

		VN	40	-0.68	-0.000951	± 2.5	PASS
		VN	50	0.19	0.000266	± 2.5	PASS

Channel Bandwidth: 3 MHz

Channel Bandwidth: 3 MHz+							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	-0.37	-0.000528	± 2.5	PASS
		VN	TN	3.26	0.004654	± 2.5	PASS
		VH	TN	4.07	0.005810	± 2.5	PASS
	MCH	VL	TN	3.5	0.004947	± 2.5	PASS
		VN	TN	0.12	0.000170	± 2.5	PASS
		VH	TN	4.02	0.005682	± 2.5	PASS
	HCH	VL	TN	0.71	0.000994	± 2.5	PASS
		VN	TN	1.67	0.002337	± 2.5	PASS
		VH	TN	4.24	0.005934	± 2.5	PASS
16QAM	LCH	VL	TN	0.89	0.001271	± 2.5	PASS
		VN	TN	4.71	0.006724	± 2.5	PASS
		VH	TN	1.71	0.002441	± 2.5	PASS
	MCH	VL	TN	-0.55	-0.000777	± 2.5	PASS
		VN	TN	1.76	0.002488	± 2.5	PASS
		VH	TN	1.53	0.002163	± 2.5	PASS
	HCH	VL	TN	4.63	0.006480	± 2.5	PASS
		VN	TN	3.22	0.004507	± 2.5	PASS
		VH	TN	0.43	0.000602	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	0.9	0.001285	± 2.5	PASS
		VN	-20	-0.97	-0.001385	± 2.5	PASS
		VN	-10	3.98	0.005682	± 2.5	PASS
		VN	0	2.6	0.003712	± 2.5	PASS
		VN	10	-0.48	-0.000685	± 2.5	PASS
		VN	20	-1.96	-0.002798	± 2.5	PASS
		VN	30	0.15	0.000214	± 2.5	PASS
		VN	40	2.28	0.003255	± 2.5	PASS
		VN	50	3.68	0.005253	± 2.5	PASS
	MCH	VN	-30	4.22	0.005965	± 2.5	PASS
		VN	-20	3.77	0.005329	± 2.5	PASS
		VN	-10	1.53	0.002163	± 2.5	PASS

		VN	0	3.29	0.004650	± 2.5	PASS
		VN	10	2.73	0.003859	± 2.5	PASS
		VN	20	1.91	0.002700	± 2.5	PASS
		VN	30	4.69	0.006629	± 2.5	PASS
		VN	40	-1.07	-0.001512	± 2.5	PASS
		VN	50	4.5	0.006360	± 2.5	PASS
	HCH	VN	-30	4.8	0.006718	± 2.5	PASS
		VN	-20	0.7	0.000980	± 2.5	PASS
		VN	-10	-1.92	-0.002687	± 2.5	PASS
		VN	0	3.35	0.004689	± 2.5	PASS
		VN	10	1.16	0.001624	± 2.5	PASS
		VN	20	0.2	0.000280	± 2.5	PASS
		VN	30	-1.04	-0.001456	± 2.5	PASS
		VN	40	-0.2	-0.000280	± 2.5	PASS
		VN	50	4.31	0.006032	± 2.5	PASS
QPSK	LCH	VN	-30	3.86	0.005510	± 2.5	PASS
		VN	-20	-0.48	-0.000685	± 2.5	PASS
		VN	-10	4.57	0.006524	± 2.5	PASS
		VN	0	2.14	0.003055	± 2.5	PASS
		VN	10	0.83	0.001185	± 2.5	PASS
		VN	20	3.17	0.004525	± 2.5	PASS
		VN	30	1.3	0.001856	± 2.5	PASS
		VN	40	3.79	0.005410	± 2.5	PASS
		VN	50	2.59	0.003697	± 2.5	PASS
	MCH	VN	-30	0.86	0.001216	± 2.5	PASS
		VN	-20	0.55	0.000777	± 2.5	PASS
		VN	-10	0	0.000000	± 2.5	PASS
		VN	0	-0.36	-0.000509	± 2.5	PASS
		VN	10	0.64	0.000905	± 2.5	PASS
		VN	20	4.68	0.006615	± 2.5	PASS
		VN	30	0.78	0.001102	± 2.5	PASS
		VN	40	-0.33	-0.000466	± 2.5	PASS
		VN	50	0.67	0.000947	± 2.5	PASS
	HCH	VN	-30	3.11	0.004353	± 2.5	PASS
		VN	-20	1.12	0.001568	± 2.5	PASS
		VN	-10	-0.95	-0.001330	± 2.5	PASS
		VN	0	4.47	0.006256	± 2.5	PASS
		VN	10	2.59	0.003625	± 2.5	PASS
		VN	20	-1.76	-0.002463	± 2.5	PASS
		VN	30	-0.97	-0.001358	± 2.5	PASS
		VN	40	0.81	0.001134	± 2.5	PASS

		VN	50	-0.77	-0.001078	± 2.5	PASS
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Channel Bandwidth: 5 MHz

Channel Bandwidth: 5 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	2.25	0.003207	± 2.5	PASS
		VN	TN	0.68	0.000969	± 2.5	PASS
		VH	TN	1.77	0.002523	± 2.5	PASS
	MCH	VL	TN	-0.96	-0.001357	± 2.5	PASS
		VN	TN	-1.21	-0.001710	± 2.5	PASS
		VH	TN	0.76	0.001074	± 2.5	PASS
	HCH	VL	TN	1.47	0.002060	± 2.5	PASS
		VN	TN	1.84	0.002579	± 2.5	PASS
		VH	TN	-1.16	-0.001626	± 2.5	PASS
16QAM	LCH	VL	TN	0.35	0.000499	± 2.5	PASS
		VN	TN	-1.32	-0.001882	± 2.5	PASS
		VH	TN	0.54	0.000770	± 2.5	PASS
	MCH	VL	TN	4.81	0.006799	± 2.5	PASS
		VN	TN	-0.63	-0.000890	± 2.5	PASS
		VH	TN	3.87	0.005470	± 2.5	PASS
	HCH	VL	TN	3.52	0.004933	± 2.5	PASS
		VN	TN	3.75	0.005256	± 2.5	PASS
		VH	TN	3.14	0.004401	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VN	-30	-0.25	-0.000356	± 2.5	PASS
		VN	-20	4.45	0.006344	± 2.5	PASS
		VN	-10	3.35	0.004775	± 2.5	PASS
		VN	0	4.14	0.005902	± 2.5	PASS
		VN	10	0.51	0.000727	± 2.5	PASS
		VN	20	4.95	0.007056	± 2.5	PASS
		VN	30	4.71	0.006714	± 2.5	PASS
		VN	40	-0.4	-0.000570	± 2.5	PASS
		VN	50	-1.77	-0.002523	± 2.5	PASS
	MCH	VN	-30	1.79	0.002530	± 2.5	PASS
		VN	-20	-1.26	-0.001781	± 2.5	PASS
		VN	-10	-0.66	-0.000933	± 2.5	PASS
		VN	0	-0.45	-0.000636	± 2.5	PASS

		VN	10	1.9	0.002686	± 2.5	PASS
		VN	20	0.52	0.000735	± 2.5	PASS
		VN	30	3.97	0.005611	± 2.5	PASS
		VN	40	-1.95	-0.002756	± 2.5	PASS
		VN	50	-1.57	-0.002219	± 2.5	PASS
	HCH	VN	-30	-1.2	-0.001682	± 2.5	PASS
		VN	-20	3.09	0.004331	± 2.5	PASS
		VN	-10	4.47	0.006265	± 2.5	PASS
		VN	0	-1.53	-0.002144	± 2.5	PASS
		VN	10	3.54	0.004961	± 2.5	PASS
		VN	20	-1.56	-0.002186	± 2.5	PASS
		VN	30	0.43	0.000603	± 2.5	PASS
		VN	40	3.15	0.004415	± 2.5	PASS
		VN	50	0.38	0.000533	± 2.5	PASS
		VN	-30	-1.51	-0.002153	± 2.5	PASS
16QAM	LCH	VN	-20	2.92	0.004163	± 2.5	PASS
		VN	-10	-1.51	-0.002153	± 2.5	PASS
		VN	0	3.28	0.004676	± 2.5	PASS
		VN	10	0.77	0.001098	± 2.5	PASS
		VN	20	-0.91	-0.001297	± 2.5	PASS
		VN	30	0.39	0.000556	± 2.5	PASS
		VN	40	1.72	0.002452	± 2.5	PASS
		VN	50	4.79	0.006828	± 2.5	PASS
	MCH	VN	-30	-1.51	-0.002134	± 2.5	PASS
		VN	-20	-0.45	-0.000636	± 2.5	PASS
		VN	-10	-0.62	-0.000876	± 2.5	PASS
		VN	0	-1.42	-0.002007	± 2.5	PASS
		VN	10	1.34	0.001894	± 2.5	PASS
		VN	20	-0.08	-0.000113	± 2.5	PASS
		VN	30	1.12	0.001583	± 2.5	PASS
		VN	40	4.94	0.006982	± 2.5	PASS
		VN	50	3.37	0.004763	± 2.5	PASS
	HCH	VN	-30	4.37	0.006125	± 2.5	PASS
		VN	-20	-0.49	-0.000687	± 2.5	PASS
		VN	-10	1.09	0.001528	± 2.5	PASS
		VN	0	-0.18	-0.000252	± 2.5	PASS
		VN	10	-1.75	-0.002453	± 2.5	PASS
		VN	20	2.1	0.002943	± 2.5	PASS
		VN	30	0.7	0.000981	± 2.5	PASS
		VN	40	2.36	0.003308	± 2.5	PASS
		VN	50	-0.68	-0.000953	± 2.5	PASS

Channel Bandwidth: 10 MHz

Channel Bandwidth: 10 MHz							
Voltage							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	VL	TN	0.4	0.000568	± 2.5	PASS
		VN	TN	1.48	0.002102	± 2.5	PASS
		VH	TN	-0.75	-0.001065	± 2.5	PASS
	MCH	VL	TN	-1.08	-0.001527	± 2.5	PASS
		VN	TN	-0.89	-0.001258	± 2.5	PASS
		VH	TN	1.14	0.001611	± 2.5	PASS
	HCH	VL	TN	-1.69	-0.002377	± 2.5	PASS
		VN	TN	2.21	0.003108	± 2.5	PASS
		VH	TN	1.72	0.002419	± 2.5	PASS
16QAM	LCH	VL	TN	3.75	0.005327	± 2.5	PASS
		VN	TN	-1.24	-0.001761	± 2.5	PASS
		VH	TN	-0.97	-0.001378	± 2.5	PASS
	MCH	VL	TN	0.05	0.000071	± 2.5	PASS
		VN	TN	-0.41	-0.000580	± 2.5	PASS
		VH	TN	-1.79	-0.002530	± 2.5	PASS
	HCH	VL	TN	3.67	0.005162	± 2.5	PASS
		VN	TN	-0.15	-0.000211	± 2.5	PASS
		VH	TN	3.07	0.004318	± 2.5	PASS
Temperature							
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
16QAM	LCH	VN	-30	2.82	0.004006	± 2.5	PASS
		VN	-20	-1.24	-0.001761	± 2.5	PASS
		VN	-10	4.44	0.006307	± 2.5	PASS
		VN	0	2.95	0.004190	± 2.5	PASS
		VN	10	3.27	0.004645	± 2.5	PASS
		VN	20	3.08	0.004375	± 2.5	PASS
		VN	30	4.44	0.006307	± 2.5	PASS
		VN	40	-0.86	-0.001222	± 2.5	PASS
		VN	50	0.97	0.001378	± 2.5	PASS
	MCH	VN	-30	2.47	0.003491	± 2.5	PASS
		VN	-20	-1.9	-0.002686	± 2.5	PASS
		VN	-10	0.77	0.001088	± 2.5	PASS
		VN	0	-1.85	-0.002615	± 2.5	PASS
		VN	10	2.57	0.003633	± 2.5	PASS
		VN	20	2.53	0.003576	± 2.5	PASS

		VN	30	0.48	0.000678	± 2.5	PASS
		VN	40	-1.1	-0.001555	± 2.5	PASS
		VN	50	-1.82	-0.002572	± 2.5	PASS
	HCH	VN	-30	-1.98	-0.002785	± 2.5	PASS
		VN	-20	0.69	0.000970	± 2.5	PASS
		VN	-10	3.18	0.004473	± 2.5	PASS
		VN	0	-0.37	-0.000520	± 2.5	PASS
		VN	10	4.01	0.005640	± 2.5	PASS
		VN	20	4.73	0.006653	± 2.5	PASS
		VN	30	2.13	0.002996	± 2.5	PASS
		VN	40	0.64	0.000900	± 2.5	PASS
		VN	50	-0.54	-0.000759	± 2.5	PASS
QPSK	LCH	VN	-30	4.01	0.005696	± 2.5	PASS
		VN	-20	-1.89	-0.002685	± 2.5	PASS
		VN	-10	-0.74	-0.001051	± 2.5	PASS
		VN	0	4.72	0.006705	± 2.5	PASS
		VN	10	1.78	0.002528	± 2.5	PASS
		VN	20	4.39	0.006236	± 2.5	PASS
		VN	30	2.22	0.003153	± 2.5	PASS
		VN	40	-0.17	-0.000241	± 2.5	PASS
		VN	50	2.07	0.002940	± 2.5	PASS
	MCH	VN	-30	4.64	0.006558	± 2.5	PASS
		VN	-20	-1.47	-0.002078	± 2.5	PASS
		VN	-10	-0.5	-0.000707	± 2.5	PASS
		VN	0	3.25	0.004594	± 2.5	PASS
		VN	10	1.64	0.002318	± 2.5	PASS
		VN	20	2.84	0.004014	± 2.5	PASS
		VN	30	1.15	0.001625	± 2.5	PASS
		VN	40	1.4	0.001979	± 2.5	PASS
		VN	50	-1.16	-0.001640	± 2.5	PASS
	HCH	VN	-30	0.54	0.000759	± 2.5	PASS
		VN	-20	-0.39	-0.000549	± 2.5	PASS
		VN	-10	3.82	0.005373	± 2.5	PASS
		VN	0	2.31	0.003249	± 2.5	PASS
		VN	10	0.02	0.000028	± 2.5	PASS
		VN	20	1.72	0.002419	± 2.5	PASS
		VN	30	0.49	0.000689	± 2.5	PASS
		VN	40	2.11	0.002968	± 2.5	PASS
		VN	50	0.48	0.000675	± 2.5	PASS